

COPY COPY

1. Incident Name Refugio Incident	2. Operational Period to be covered by IAP (Date/Time) From 05/24/2015 06:00 To 05/25/2015 05:59	Operational Period Ops Period 4	CG IAP COVER SHEET
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3. Approved by	
ORG	Name C.L. Downey
USCG	Captain J. Williams
EPA	M. Rogow
CAL DFW	Captain M. Crossland
Plains	A. Schafer
SBCOEM	M. Dyer

INCIDENT ACTION PLAN

The items checked below are included in this Incident Action Plan:

- ☒ ICS 202-OS (Response Objectives)
- ☒ ICS 203-OS (Organization List) - or - ICS 207-OS (Organization Chart)
- ☒ ICS 204-CGs (Assignment Lists) One Copy each of any ICS 204-CG attachments
- ☒ ICS 205-CG (Communications Plan)
- ☒ ICS 206-CG (Medical Plan)
- ☒ ICS 208-CG (Site Safety Plan) or Note SSP Location
- ☒ Map/Chart
- ☒ Weather forecast/Tides/Currents
- Other Attachments
- ☐ Telephone Contact List

Incident Picture



4. Prepared by Dan Sobieski	Date / Time 05/19/2015 09:39
CG IAP COVER SHEET	05/23/2015 19:28
Generated by Witt O'Brien's	(Rev. 4/04)

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1 of 87

1. Incident Name

Refugio Incident

2. Operational Period (Date/Time)

From 05/24/2015 06:00 To 05/25/2015 05:59

Operational Period

Ops Period 4

INCIDENT BRIEFING

ICS 202-CG

3. Objective(s)

Ensure the safety of response personnel and the public.

Continue to evaluate the oil impacts

- a. At release site
- b. Between pipe and beach
- c. Beach cleanup
- i. Evaluate SCAT

Continue to prevent migration of oil from release site to shoreline

Continue to recover discharged oil from impacted areas, both public and private, and manage waste according to plan.

ID and protect environmentally sensitive areas

ID and protect culturally sensitive areas including wildlife.

Keep public and stakeholders informed

Minimize economic impacts

Repair pipeline

— provide recovery and care of oiled wildlife

4. Operational Period Command Emphasis (Safety Message, Priorities, Key Decisions/Directions)

Limitations and Constraints

Tides

Access to beach

Location

Weather System

Permitting with the county

Cultural Considerations

Nesting season

Hotel accommodations

Critical Infrastructure Assessment

All response related media releases require Unified Command approval

Keep Unified Command aware of VIP request

Immediately report any injuries, public or responders, to the Unified Command

Priorities

Safety

Security

Wildlife impacts - Notify Unified Command

Discharge quantities

Recovered quantities

Beach open

Source control

Protect cultural resources

Public information dissemination

Establish and implement Cleanup End points - Environmental Unit

Changes in impacted beaches require that Santa Barbara County Public Health, Dr. Wada, be notified.

Ensure all operations are conducted in accordance with the approved plan.

Keep the Unified Command informed of volunteer needs.

Keep the Unified Command informed on onshore cleanup activities and document the same with a visual (map).

Report archeological concerns to the Unified Command.

INCIDENT OBJECTIVES

05/23/2015 19:33

ICS 202-CG (Rev 4/04)

Approved Site Safety Plan Located at the SBCOEM with the safety officer

Prepared by (Operations Section Chief)

sbrowne

Date/Time

05/23/2015 12:03

INCIDENT OBJECTIVES

05/23/2015 19:33

ICS 202-CG (Rev 4/04)

1. Incident Name
Refugio

2. Operational Period (Date/Time)

From: 5/23/2015 0600

To: 5/24/2015 0600

INCIDENT ORGANIZATION
CHART ICS 207-CG

..... Indicates initial
contact point

INCIDENT COMMAND

CAPT. C. Downey USCG
M. Rogow EPA

SOSC
Capt. M. Crossland CDFW

RPIC A. Shafer Plains

LOSC & Arrest

INFORMATION OFFICER

Lt. D Brzuska

SAFETY OFFICER

R. Fordham

LIAISON OFFICER

P. Hodgens & G. Gregory (D)

INVESTIGATORS

OSPR.
J. Victoria

AGENCY REPS.
J. Stout

OPERATIONS SECTION CHIEF
C. Gregory
M. Waldon & R. Matthews (D)

PLANNING SECTION CHIEF
D. Sobieski
Gerachtv. Crider. Surface (D)

LOGISTICS SECTION CHIEF
Rory Dabney
Kathy Randall (D)

FINANCE/ADMIN SECTION CHIEF
Brian Bryd

STAGING AREA MANAGER
M. Rudoy/D. Remos

Protection/RECOVERY BRANCH
R. Schmid

OFFSHORE GROUP SUPERVISOR
J. Victoria

ONSHORE GROUP SUPERVISOR
M. Jolly

SHORELINE GROUP SUPERVISOR
J. Victoria

Field Supervisor
S. Brown

Protection
B. Waldeman

SECURITY GROUP SUPERVISOR
B. Hickey

AIR OPERATIONS BRANCH
K. Jolson

AIR TACTICAL GP SUPERVISOR

HELIBASE MANAGER

FIXED-WING BASE COORDINATOR

FIELD Observer
m. WALDON

WILDLIFE BRANCH DIRECTOR
I. HENKEL

RECOVERY GROUP
K. PARKER

**FIELD STABILIZATION
GROUP**
H. Anderson

**CARE & PROCESSING
GROUP**
C. Florella

**RECONNAISSANCE
GROUP**
K. Bigham

SITUATION UNIT LEADER
C. Stenheart
S. Ross, K. Cereaway (D)

RESOURCE UNIT LEADER
M. Neshbaum

DOCUMENTATION UNIT LEADER
S. Christensen

DEMOBILIZATION UNIT LEADER
B. Gureghly

ENVIRONMENTAL UNIT LEADER
M. Beggs
C. Thiston (D)

TECHNICAL SPECIALISTS (GIS)
John LaCase
Greg White
Leri Gustafson
Judd Muskat

SUPPORT BRANCH DIRECTOR

SUPPLY UNIT LEADER
Joann Gonzalez

SUPPLY UNIT
C. White

SUPPLY UNIT
H. Gronen

GROUND SUPPORT UNIT LEADER

COST UNIT LEADER

TIME UNIT LEADER

PROCUREMENT UNIT LEADER

COMPENSATION UNIT LEADER
Keith Turner

4 of 87

5

1. Incident Name Refugio Incident	2. Operational Period (Date/ Time) From 05/24/2015 06:00 To 05/25/2015 05:59	Operational Period Ops Period 4	Assignment List ICS 204-CG
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3. Branch Air Operations Branch	4. Division/Group/Staging
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Task Force/Strike Team	Team
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5. Operational Personnel Name Operations Section Chief Chris Gregory Branch Director Kyle Jellison	Affiliation Witt O'Brien's and USCG Witt O'Briens	Contact#(s)
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6. Resources Assigned

'X' indicates 204a attachment with additional instructions

Qty	Size	Unit	Strike Team/Task Force/Resource Identifier	Leader	Contact#	# Of Persons	Notes
1	0	each	Helicopter				Surveillance
1	0	each	Strike Team 1 Overflight / Command and Control	John Bellfield	805-452-7619	2	X
1		each	Assessment Team-Flight Ops Personnel				
1		each	Helicopter from Aspen Air, 4-6 Passenger				
1		each	Operations - Air Operations Branch Director				

7. Work Assignments

Provide Coordination of Air Ops in the Area of Operations

8. Special Instructions

9. Communications (radio and/or phone contact numbers needed for this assignment)

Emergency Communications

Medical _____ Evacuation _____ Other _____

10. Prepared by Date/Time 05/22/2015 16:00	11. Reviewed By (PSC) D. Sobieski Date/Time 5/23/15	12. Reviewed By (OSC) Chris Gregory Date/Time
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ASSIGNMENT LIST

05/23/2015 16:44

ICS 204-CG (Rev.10/07)

5 of 87

1. Incident Name	2. Operational Period (Date/ Time)	Operational Period	Assignment List
Refugio Incident	From 05/24/2015 06:00 To 05/25/2015 05:59	Ops Period 4	ICS 204-CG

3. Branch	4. Division/Group/Staging
Recovery Branch	Culvert Culvert Group

Task Force/Strike Team	Team
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5. Operational Personnel	Name	Affiliation	Contact#(s)
Operations Section Chief	Chris Gregory	Witt O'Brien's and USCG	
Branch Director	LCDR Ron Matthews	USCG	
Division/Group Supervisor/STAM	LTJG Jeremy Leffett		

6. Resources Assigned

'X' indicates 204a attachment with additional instructions

Qty	Size	Unit	Strike Team/Task Force/Resource Identifier	Leader	Contact#	# Of Persons	Notes
18	0		Pacific Petroleum	Bill Sarten	805-266-8375		
1	0		SANTEC / Plains	Mike Gunby	805-587-0493		
8	0		Culvert Washing	Hoss Morabito	805-878-2675		
1	0		Freeport McMoran Gaviota Plant	Jerry Penny	805-896-8107		
4	0		EPA START	Chris Myers	702-837-0690		

7. Work Assignments

-Area 2, Section 2 (Under US 101): fabricate containment berm (see Area 2, section 1 fabrication standards from 5/20/15 Rev-04.
 -Wash interior of concrete culvert utilizing a rotating pressure wash system, using fresh hot water to remove all crude oil contaminants until water is visibly clean and clear. Visual concurrence should be verified and witnessed by an authorized environmental representative. Adequate water samples shall be collected to confirm culvert is clean. Pipeline oil removal operations will continue throughout evening if necessary.

8. Special Instructions

Volunteers: 1-800-228-4544
 Claims: 866-753-3619
 Public Affairs/JIC: 805-696-1188
 State Park Law Enforcement: 951-443-2969
 Sheriff's Dispatch: 805-692-5743

Instructions for Dead Wildlife and Natural Resource Protection.

Any LIVE oiled wildlife (birds, mammals, or sea turtles) observed or incidentally collected in clean up operations should be immediately called in to the Wildlife Hotline at 877-823-6926.

Any DEAD oiled birds, mammals, or sea turtles observed as part of cleanup operations should be called in to the team's supervisor. Supervisors can instruct the team in separating the oiled animal from the regular waste stream and (ideally) collecting it in a separate plastic bag, labeled with division/assignment area, and called into the Wildlife Hotline at 877-823-6926 for Recovery personnel to arrange pick up.

It is critical that clean up teams not dispose of dead marine organisms (invertebrates, crustaceans, anything other than birds or mammals). Stockpile it in a marked area above the high tide line and a Natural Resource Damage Assessment (NRDA) field team will come by around midday/before high tide to ID and catalogue the spill related mortality.

ASSIGNMENT LIST

05/23/2015 16:44

ICS 204-CG (Rev.10/07)

9. Communications (radio and/or phone contact numbers needed for this assignment)

Name/Function	Radio Freq./System/Channel	Phone	Cell/Pager
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Emergency Communications

Medical	Evacuation	Other
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10. Prepared by Jason Bergeron	Date/Time 05/22/2015 19:18	11. Reviewed By (PSC) D. Sobieski	Date/Time 5/23/15	12. Reviewed By (OSC) Chris Gregory	Date/Time
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ASSIGNMENT LIST

05/23/2015 16:44

ICS 204-CG (Rev.10/07)

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3. Branch Recovery Branch	4. Division/Group/Staging Decon Group
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Task Force/Strike Team	Team
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5. Operational Personnel	Name	Affiliation	Contact#(s)
	Operations Section Chief Chris Gregory	Witt O'Brien's and USCG	
	Branch Director Dan Hager	Patriot	
	Division/Group Supervisor/STAM		

6. Resources Assigned

'X' indicates 204a attachment with additional instructions

Qty	Size	Unit	Strike Team/Task Force/Resource Identifier	Leader	Contact#	# Of Persons	Notes
45	0	each	Decon Personnel				Ventura Harbor
45	0	each	Decon Personnel				Port Hueneme
60	0	each	Decon Personnel				T & T Yard Ventura

7. Work Assignments

Port Hueneme - Gross decon of Vessel, Remove Equipment

Ventura Harbor - Haul out and final decon of vessels

T & T Yard Ventura- Final cleaning of gear and ancillary equipment

Provided necessary personnel equipment and materials to complete decon in accordance with the decon plan approved by the Unified Command.

8. Special Instructions

Volunteers: 1-800-228-4544
 Claims: 866-753-3619
 Public Affairs/JIC: 805-696-1188
 State Park Law Enforcement: 951-443-2969
 Sherriff's Dispatch: 805-692-5743

Instructions for Dead Wildlife and Natural Resource Protection.

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It is critical that clean up teams not dispose of dead marine organisms (invertebrates, crustaceans, anything other than birds or mammals). Stockpile it in a marked area above the high tide line and a Natural Resource Damage Assessment (NRDA) field team will come by around midday/before high tide to ID and catalogue the spill related mortality.

ASSIGNMENT LIST

05/23/2015 16:44

ICS 204-CG (Rev.10/07)

Do not operate vehicles or machinery on the beach within 1/2 mile of Coal Oil Point to protect Western Snowy Plovers.

Do not initiate any on-shore response or cleanup at Coal Oil Point without consulting the USFWS and California Dept of Fish and Game. *W. Harris*

On Water: Avoid entering kelp beds as much as possible. Avoid boat traffic traveling near or through flocks of seabirds resting on water, stay 1000 ft away from nesting seabirds. If sea otter is observed keep clear and call Mike Harris immediatly. 831-212-7090

9. Communications (radio and/or phone contact numbers needed for this assignment)

Name/Function	Radio Freq./System/Channel	Phone	Cell/Pager
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Emergency Communications

Medical	Evacuation	Other
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10. Prepared by

Date/Time
02/07/2015 16:00

11. Reviewed By (PSC)
D. Sobieski

Date/Time
05/24/16

12. Reviewed By (OSC)
Chris Gregory

Date/Time

ASSIGNMENT LIST

05/23/2015 16:44

ICS 204-CG (Rev.10/07)

1. Incident Name Refugio Incident		2. Operational Period (Date/Time) From 05/24/2015 06:00 To 05/25/2015 05:59		Operational Period Ops Period 4	Assignment List ICS 204-CG
3. Branch Recovery Branch		4. Division/Group/Staging Law - Security			
Task Force/Strike Team		Team			
5. Operational Personnel		Name	Affiliation	Contact#(s)	
Operations Section Chief		Chris Gregory	Witt O'Brien's and USCG		
Branch Director		Ryan Schmid	USCG		
Division/Group Supervisor/STAM		K. Moore			
6. Resources Assigned					
'X' indicates 204a attachment with additional instructions					
Qty x Size (Unit)	Strike Team/Task Force/Resource Identifier	Leader	Contact#	# Of Persons	Notes
1 (each)	Law Enforcement	B. McVay		10	
14	Security Land	B. McVay	805-617-5735	0	
8	Security Afloat	Alex Cardenas	310-961-6189	0	Sheriff, State Parks, HCP, Fish and Wildlife 2 MSST boats
7. Work Assignments					
Prevent unauthorized persons from entering or remaining in the spill area. Contact and identify all persons not readily identifiable. Escort any unauthorized person from the area.					
Land units- Contact any unidentified vehicle parked in the area with emphasis on highway 101 where access to the beach can be made. Remove all unauthorized persons and vehicles. Do not loiter on or around the railway.					
Water units- Contact any unidentified vessels entering or in the spill zone. Divert or escort unauthorized vessels from the spill area					
8. Special Instructions					
Identify any persons or vessels that may need decontamination. Personnel are reminded to stay hydrated and work rest regimen as necessary					
Instructions for Dead Wildlife and Natural Resource Protection.					
Any LIVE oiled wildlife (birds, mammals, or sea turtles) observed or incidentally collected in clean up operations should be immediately called in to the Wildlife Hotline at 877-823-6926.					
Any DEAD oiled birds, mammals, or sea turtles observed as part of cleanup operations should be called in to the team's supervisor. Supervisors can instruct the team in separating the oiled animal from the regular waste stream and (ideally) collecting it in a separate plastic bag, labeled with division/assignment area, and called into the Wildlife Hotline at 877-823-6926 for Recovery personnel to arrange pick up.					
It is critical that clean up teams not dispose of dead marine organisms (invertebrates, crustaceans, anything other than birds or mammals). Stockpile it in a marked area above the high tide line and a Natural Resource Damage Assessment (NRDA) field team will come by around midday/before high tide to ID and catalogue the spill related mortality.					
Do not operate vehicles or machinery on the beach within 1/2 mile of Coal Oil Point to protect Western Snowy Plovers.					
Do not initiate any on-shore response or cleanup at Coal Oil Point without consulting the USFWS and California Dept of Fish and Game.					
On Water: Avoid entering kelp beds as much as possible. Avoid boat traffic traveling near or through flocks of seabirds resting on water, stay 1000 ft away from nesting seabirds. If sea otter is observed keep clear and call Mike Harris immediately. 831-212-7090					
9. Communications (radio and/or phone contact numbers needed for this assignment)					
Name/Function	Radio Freq./System/Channel	Phone	Cell/Pager		
10. Prepared By B. McVay	Date/Time 05/20/2015 10:19	11. Reviewed By (PSC) D. Sobieski	Date / Time 05/23/2015 18:03	12. Reviewed By (OSC) Chris Gregory	Date / Time
ASSIGNMENT LIST					

Emergency Communications**Medical:** 911**Evacuation:** 911**Other:** 911**10. Prepared By**

B. McVay

Date/Time

05/20/2015 10:19

11. Reviewed By (PSC)

D. Sobieski

Date / Time

05/23/2015 18:03

12. Reviewed By (OSC)

Chris Gregory

Date / Time**ASSIGNMENT LIST**

Generated by Witt O'Brien's

ICS 204-CG (Rev.10/07)

11 of 87

1. Incident Name	2. Operational Period (Date/ Time)	Operational Period	Assignment List
Refugio Incident	From 05/24/2015 06:00 To 05/25/2015 05:59	Ops Period 4	ICS 204-CG

3. Branch	4. Division/Group/Staging
Recovery Branch	Offshore Recovery Group

Task Force/Strike Team	Team
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5. Operational Personnel	Name	Affiliation	Contact#(s)
	Operations Section Chief Chris Gregory	Witt O'Brien's and USCG	
	Branch Director Ryan Schmid	USCG	
	Division/Group Supervisor/STAM John Victoria	Clean Seas	

6. Resources Assigned

'X' indicates 204a attachment with additional instructions

Qty	Size	Unit	Strike Team/Task Force/Resource Identifier	Leader	Contact#	# Of Persons	Notes
1	0		Skimming Vessels				Offshore Branch
1	0		Skimming Vessels				Offshore Branch
1	0		Skimming Vessels				Offshore Branch
1	0		Skimming Vessels				Offshore Branch
1	0		Skimming Vessels				Offshore Branch
1	0		Skimming Vessels				Offshore Branch
1	0		Skimming Vessels				Offshore Branch
1	0		Skimming Vessels				Offshore Branch
1	0		Skimming Vessels				Offshore Branch
1	0		OSRV				Offshore Branch
1	0		OSRV				Offshore Branch
1	0	each	Task Force 1 OCEAN SCOUT	Robert Pritchard	8052-755-9085	11	X
1	0	each	Task Force 2 OCEAN DEFENDER	Peter Foss	805-765-9087	11	X
1	0	each	Task Force 3 OCEAN SENTINEL	Bobby Reed	805-765-9088	13	X
1	0	each	M/V Delaware	Cesar Brutoste	805-815-1966	2	Working with Clean Seas collecting free floating oil. X
1	0	each	M/V Oregon	Mike Ricardo	562-244-4122	2	Working with Clean Seas collecting free floating oil. X
1	0	each	Offshore Barge	David	805-755-3300	4	Supply barge for offshore OPS (fuel, food, X

ASSIGNMENT LIST

05/23/2015 16:44

ICS 204-CG (Rev.10/07)

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12 of 87

1	110	Feet	Offshore Supply Vessel John Henry	mooring)
4	each		29ft - 35ft Response Boat	
4	each		Portable Toilets	
1	each		Vessel OREGON, operate out of SB Marina	

7. Work Assignments

- Contain and Recover free floating oil. Surveillance Helo (Air Control #1) to direct offshore booming and recovery operations in a South to North configuration.
- Helo #1 will direct skimming operations in the nearshore areas to minimize oil impacting the shoreline.
- Task Force and Helo command and control will maximize oil encounter utilizing boom tow vessels. All boom boats secured at 2000 to Ventura.
- Vessel will recover available free floating oil configured in 2 task force units.

Pull 600 feet of ocean boom in "U" configuration to collect free floating oil.
Offshore barge to anchor and provide fuel, food, and mooring.

8. Special Instructions

PPE: Tyvek Suits, gloves, safety goggles, hard hats, and neoprene boots to the work in containment areas. PFDs are required when working on the vessels.

- Site Safety Plan will be distributed via Ocean Sentinel on-scene. Offshore Response Team Member Report any distressed Wildlife to On-Water Group Leader Kyle Hanson @ 805-455-5502. Skimming vessels to off-load recovered product to the OCEAN KEEPER.
- Helo to direct boom tows to maximize encounter rates for skimmers (TF#1 OCEAN SCOUT / TF#2 OCEAN DEFENDER / TF#3 OCEAN SENTINEL)
- Direct all media inquiries to the PIO.
- Use of unauthorized Social Media is strictly prohibited.

During this operational period the Operational Section Chief may direct certain Vessels be removed from deployment for the purpose of decontamination and eventual demob

Instructions for Dead Wildlife and Natural Resource Protection.

Any LIVE oiled wildlife (birds, mammals, or sea turtles) observed or incidentally collected in clean up operations should be immediately called in to the Wildlife Hotline at 877-823-6926.

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It is critical that clean up teams not dispose of dead marine organisms (invertebrates, crustaceans, anything other than birds or mammals). Stockpile it in a marked area above the high tide line and a Natural Resource Damage Assessment (NRDA) field team will come by around midday/before high tide to ID and catalogue the spill related mortality.

Do not operate vehicles or machinery on the beach within 1/2 mile of Coal Oil Point to protect Western Snowy Plovers.

Do not initiate any on-shore response or cleanup at Coal Oil Point without consulting the USFWS and California Dept of Fish and Game.

On Water: Avoid entering kelp beds as much as possible. Avoid boat traffic traveling near or through flocks of seabirds resting on water, stay 1000 ft away from nesting seabirds. If sea otter is observed keep clear and call Mike Harris immediately. 831-212-7090

9. Communications (radio and/or phone contact numbers needed for this assignment)

Name/Function	Radio Freq./System/Channel	Phone	Cell/Pager
All Task Forces	Marine VHF CH 16 & 10		805-455-5502
Kyle Hanson	Clean Seas VHF		805-455-5502

John Bellfield

Marine VHF CH 10

805-452-7616

Emergency Communications

Medical See Site Safety Plan

Evacuation Refer to Station Bill

Other _____

10. Prepared by
Kyle Hanson

Date/Time
05/22/2015 15:45

11. Reviewed By (PSC)
D. Sobieski *DS*

Date/Time
5/23/15

12. Reviewed By (OSC)
Chris Gregory

Date/Time

ASSIGNMENT LIST

05/23/2015 16:44

ICS 204-CG (Rev.10/07)

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3. Branch Recovery Branch	4. Division/Group/Staging On Shore Group
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Task Force/Strike Team	Team
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5. Operational Personnel	Name	Affiliation	Contact#(s)
	Operations Section Chief Chris Gregory	Witt O'Brien's	
	Branch Director Maggie Walden	USCG	
	Division/Group Supervisor/STAM Maggie Walden		

6. Resources Assigned

'X' indicates 204a attachment with additional instructions

Qty	Size	Unit	Strike Team/Task Force/Resource Identifier	Leader	Contact#	# Of Persons	Notes
28		each	Spill Management Team-Cleanup Personnel & Equipment				
14	0		Excavation and Verification Team	Mike Buttram	805-310-2141		
18	0	each	Pacific Petroleum	Bill Sarten	805-266-8375		
1	0	each	SANTEC / Plains	Mike Gunby	805-587-0493		
8	0	each	Culvert Washing	Hoss Morabito	805-878-8107		
1	0	each	Freeport McMoran Gaviota Plant	Jerry Penny	805-896-8107		
4	0	each	EPA START	Chris Myers	702-837-0609		
5		each	Assessment Team - Rapid Oil Assessment Personnel				
1		each	Assessment Team - Rapid Oil Assessment Team Data Manager				
5		each	Lodging for Rapid Oil Assessment Team				
3		each	Rapid Oil Assessment Team Vehicles				
5		each	Assessment Team - PDA's				

7. Work Assignments

See Attached Plans

8. Special Instructions

1. Safety Officer and air monitoring shall be present during operations.
2. Prior to excavation archeologist shall be consulted and if there are any cultural or historic resource concerns, archeologist shall be present monitor the operations
3. A minimum of 25 feet from the potential release location shall be maintained
4. All recovered oil shall be *quantified* and disposed of in accordance with the Waste Management Plan.

Safety Message:

PPE:

- All personnel operating in the designated exclusion zone shall wear level D (hard hats, safety toe boots, safety flasks, fire retardent covera and gloves).
- Respiratory protection (full face air purifying respirator with OV-P100 cartridges) may be required by on site assistant safety officers based on continuous air monitoring readings.
- Engineering controls such as vapor barriers and portable ventilation shall be used in the evacuation area prior to use of respiratory protection.
- All personnel are reminded to stay hydrated and take breaks as needed.
- Notify Safety officer if safety issues arise

Instructions for Dead Wildlife and Natural Resource Protection.

Any LIVE oiled wildlife (birds, mammals, or sea turtles) observed or incidentally collected in clean up operations should be immediately called in to the Wildlife Hotline at 877-823-6926.

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Do not operate vehicles or machinery on the beach within 1/2 mile of Coal Oil Point to protect Western Snowy Plovers.

Do not initiate any on-shore response or cleanup at Coal Oil Point without consulting the USFWS and California Dept of Fish and Game. *WILDLIFE*

9. Communications (radio and/or phone contact numbers needed for this assignment)

Name/Function	Radio Freq./System/Channel	Phone	Cell/Pager
Freeport McMoran Gaviota Facility		805-896-8107	

Emergency Communications

Medical 911

Evacuation 911

Other 911

10. Prepared by
CWO Paul Jones

Date/Time
05/22/2015 10:08

11. Reviewed By (PSC)
D. Sobieski

Date/Time
5/23/15

12. Reviewed By (OSC)
Chris Gregory

Date/Time

ASSIGNMENT LIST

05/23/2015 16:44

ICS 204-CG (Rev.10/07)

1. Incident Name	2. Operational Period (Date/ Time)	Operational Period	Assignment List
Refugio Incident	From 05/24/2015 06:00 To 05/25/2015 05:59	Ops Period 4	ICS 204-CG

3. Branch	4. Division/Group/Staging
Recovery Branch	Protection Group

Task Force/Strike Team	Team
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5. Operational Personnel	Name	Affiliation	Contact#(s)
Operations Section Chief	Chris Gregory and Maggie Walden	Witt O'Brien's and USCG ^{EPA}	
Branch Director	Ryan Schmid	USCG	
Division/Group Supervisor/STAM	John Victoria	OSPR	

6. Resources Assigned							
'X' indicates 204a attachment with additional instructions							
Qty	Size	Unit	Strike Team/Task Force/Resource Identifier	Leader	Contact#	# Of Persons	Notes
1	0	each	Task Force 1	Ruben D	CH 10	6	Report to Staging at 0600 X
1	0	each	Task Force 2	Vince	Ch 10	6	Report to Staging at 0600 X
20		each	Response Personnel				

7. Work Assignments
As directed, deploy and maintain strategies per the Area Contingency Plan

8. Special Instructions
Follow site strategies as per ACP, deploying boom, sorbents and fence stakes. PPE: Tyvek suits, gloves, safety glasses, neoprene boots. PFDs are required within 10' of water or presents a risk of drownig. Offshore work on vessels are required a PFD

Instructions for Dead Wildlife and Natural Resource Protection.

Any LIVE oiled wildlife (birds, mammals, or sea turtles) observed or incidentally collected in clean up operations should be immediately called in to the Wildlife Hotline at 877-823-6926.

Any DEAD oiled birds, mammals, or sea turtles observed as part of cleanup operations should be called in to the team's supervisor. Supervisors can instruct the team in separating the oiled animal from the regular waste stream and (ideally) collecting it in a separate plastic bag, labeled with division/assignment area, and called into the Wildlife Hotline at 877-823-6926 for Recovery personnel to arrange pick up.

It is critical that clean up teams not dispose of dead marine organisms (invertebrates, crustaceans, anything other than birds or mammals). Stockpile it in a marked area above the high tide line and a Natural Resource Damage Assessment (NRDA) field team will come by around midday/before high tide to ID and catalogue the spill related mortality.

Do not operate vehicles or machinery on the beach within 1/2 mile of Coal Oil Point to protect Western Snowy Plovers.

Do not initiate any on-shore response or cleanup at Coal Oil Point without consulting the USFWS and California Dept of Fish and Game ^{WITT O'BRIEN'S}

On Water: Avoid entering kelp beds as much as possible. Avoid boat traffic traveling near or through flocks of seabirds resting on water, stay 1000 ft away from nesting seabirds. If sea otter is observed keep clear and call Mike Harris immediatly. 831-212-7090

9. Communications (radio and/or phone contact numbers needed for this assignment)

Name/Function	Radio Freq./System/Channel	Phone	Cell/Pager
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Marine VHF CH 10

Emergency Communications

Medical 911	Evacuation 911	Other 911
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10. Prepared by K Creighton	Date/Time 05/22/2015 09:36	11. Reviewed By (PSC) D. Sobieski	Date/Time 5/23/15	12. Reviewed By (OSC) Chris Gregory	Date/Time
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ASSIGNMENT LIST

05/23/2015 16:44

ICS 204-CG (Rev.10/07)

18 OF 87

1. Incident Name Refugio Incident	2. Operational Period (Date/Time) From 05/24/2015 06:00 To 05/25/2015 05:59	Operational Period Ops Period 4	Assignment List ICS 204-CG
3. Branch Recovery Branch	4. Division/Group/Staging Shoreline		
Task Force/Strike Team	Team		

5. Operational Personnel	Name	Affiliation	Contact#(s)
Operations Section Chief	Chris Gregory and Maggie Walden	Witt O'Brien's and EPA	
Branch Director	Ron Mathews		
Division/Group Supervisor/STAM			

6. Resources Assigned				
'X' indicates 204a attachment with additional instructions				
Qty x Size (Unit)	Strike Team/Task Force/Resource Identifier	Leader	Contact#	# Of Persons
430 (each)	Clean up Tech			0
33 (each)	Clean Up Crew - OMIES Shoreline Cleanup Responders			

7. Work Assignments
Conduct shoreline cleanup as directed within the designated operational division using approved SCAT methodology
Division J: 200 persons total. Expect 24 hour operations. Dayshift: 170, Nightshift: 50
Division K: 140 persons total. Expect 24 hour operations. Dayshift 100, Nightshift 50
Division I: 70 persons total. No night ops expected
Division M : 50 persons total. No night ops expected.

8. Special Instructions
All personnel are reminded to keep hydrated and take rest breaks as necessary. PPE: Tyvek suits, gloves, safety glass, neoprene boots. PFDs are required
Instructions for Dead Wildlife and Natural Resource Protection.
Any LIVE oiled wildlife (birds, mammals, or sea turtles) observed or incidentally collected in clean up operations should be immediately called in to the Wildlife Hotline at 877-823-6926.
Any DEAD oiled birds, mammals, or sea turtles observed as part of cleanup operations should be called in to the team's supervisor. Supervisors can instruct the team in separating the oiled animal from the regular waste stream and (ideally) collecting it in a separate plastic bag, labeled with division/assignment area, and called into the Wildlife Hotline at 877-823-6926 for Recovery personnel to arrange pick up.
It is critical that clean up teams not dispose of dead marine organisms (invertebrates, crustaceans, anything other than birds or mammals). Stockpile it in a marked area above the high tide line and a Natural Resource Damage Assessment (NRDA) field team will come by around midday/before high tide to ID and catalogue the spill related mortality.
Do not operate vehicles or machinery on the beach within 1/2 mile of Coal Oil Point to protect Western Snowy Plovers.
Do not initiate any on-shore response or cleanup at Coal Oil Point without consulting the USFWS and California Dept of Fish and Game.

9. Communications (radio and/or phone contact numbers needed for this assignment)			
Name/Function	Radio Freq./System/Channel	Phone	Cell/Pager
Emergency Communications			
Medical:	Evacuation:	Other:	

10. Prepared By Kyle Jellison	Date/Time 05/21/2015 19:28	11. Reviewed By (PSC) D. Sobieski	Date / Time 5/23/15	12. Reviewed By (OSC) Chris Gregory	Date / Time
ASSIGNMENT LIST			05/23/2015 19:14	ICS 204-CG (Rev.10/07)	

Name/Function	Radio Freq./System/Channel	Phone	Cell/Pager

Emergency Communications

Medical _____ Evacuation _____ Other _____

10. Prepared by Kyle Jellison	Date/Time 05/21/2015 19:28	11. Reviewed By (PSC) D. Sobieski	Date/Time 5/23/15	12. Reviewed By (OSC) Chris Gregory	Date/Time
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ASSIGNMENT LIST

05/23/2015 16:44

ICS 204-CG (Rev.10/07)

20 of 87

1. Incident Name
Refugio Incident

2. Operational Period (Date/ Time)
From 05/24/2015 06:00 To 05/25/2015 05:59

Operational Period
Ops Period 4

Assignment List
ICS 204-CG

3. Branch
Security Group

4. Division/Group/Staging
Team

5. Operational Personnel Name
Operations Section Chief Chris Gregory
Branch Director

Affiliation
Witt O'Brien's and USCG

Contact#(s)

6. Resources Assigned

'X' indicates 204a attachment with additional instructions

Qty	Size	Unit	Strike Team/Task Force/Resource Identifier	Leader	Contact#	# Of Persons	Notes
14		each	Surveillance Observer-Security Officer Armed				
2		each	Surveillance Observer-Unarmed				
2		each	Park Security Rangers				
2	X	each	Security Patrol personnel with vehicles to augment law enforcement				
66		each	Response Personnel - Armed Security Security Officers - Innovative Surveillance Solutions - Refugio to El Capitan Beach				

7. Work Assignments

8. Special Instructions

Instructions for Dead Wildlife and Natural Resource Protection.

Any LIVE oiled wildlife (birds, mammals, or sea turtles) observed or incidentally collected in clean up operations should be immediately called in to the Wildlife Hotline at 877-823-6926.

Any DEAD oiled birds, mammals, or sea turtles observed as part of cleanup operations should be called in to the team's supervisor. Supervisors can instruct the team in separating the oiled animal from the regular waste stream and (ideally) collecting it in a separate plastic bag, labeled with division/assignment area, and called into the Wildlife Hotline at 877-823-6926 for Recovery personnel to arrange pick up.

It is critical that clean up teams not dispose of dead marine organisms (invertebrates, crustaceans, anything other than birds or mammals). Stockpile it in a marked area above the high tide line and a Natural Resource Damage Assessment (NRDA) field team will come by around midday/before high tide to ID and catalogue the spill related mortality.

Do not operate vehicles or machinery on the beach within 1/2 mile of Coal Oil Point to protect Western Snowy Plovers.

Do not initiate any on-shore response or cleanup at Coal Oil Point without consulting the USFWS and California Dept of Fish and Game.

On Water: Avoid entering kelp beds as much as possible. Avoid boat traffic traveling near or through flocks of seabirds resting on water, stay 1000 ft away from nesting seabirds. If sea otter is observed keep clear and call Mike Harris immediately. 831-212-7090

ASSIGNMENT LIST

05/23/2015 16:44

ICS 204-CG (Rev.10/07)

9. Communications (radio and/or phone contact numbers needed for this assignment)

Name/Function	Radio Freq./System/Channel	Phone	Cell/Pager

Emergency Communications

Medical	Evacuation	Other

10. Prepared by Dan Sobieski	Date/Time 05/22/2015 19:49	11. Reviewed By (PSC) D. Sobieski	Date/Time 5/23/15	12. Reviewed By (OSC) Chris Gregory	Date/Time
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ASSIGNMENT LIST

05/23/2015 16:44

ICS 204-CG (Rev.10/07)

22 of 87

1. Incident Name Refugio Incident	2. Operational Period (Date/ Time) From 05/24/2015 06:00 To 05/25/2015 05:59	Operational Period Ops Period 4	Assignment List ICS 204-CG
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3. Branch Wildlife Branch	4. Division/Group/Staging
Task Force/Strike Team	Team

5. Operational Personnel Name	Affiliation	Contact#(s)
Operations Section Chief Chris Gregory and Maggie Walden	Witt O'Brien's and EPA	
Branch Director Holly Gelderman		

6. Resources Assigned

*X indicates 204a attachment with additional instructions

Qty	Size	Unit	Strike Team/Task Force/Resource Identifier	Leader	Contact#	# Of Persons	Notes
1	0	each	Volunteer Coordinator				
1	0	each	Facility / Equipment Coordinator				
1	0	each	Logistics / Finance Coordinator				
1		each	Wildlife Recovery Personnel - Support Staff to help recovery oiled wildlife				
3		each	Lodging for Three Wildlife Recovery Personnel through May 23, 2015				
1	0	each	Wildlife Recon Coordinator				
10		each	Wildlife Recovery Personnel - HAZWOPER trained individuals to provide wildlife recovery assistance; no wildlife training required; physical fitness needs - lift 50 pounds walk on uneven terrain				

7. Work Assignments

Complete appropriate log or census documents, manage the overall wildlife recovery and rehabilitation efforts for the response. Volunteer coordinator: work with OWCN participant organizations' volunteer coordinators to solicit, schedule and manage pre-trained and convergent volunteers. Facility coordinator: establish contamination zones within rehabilitation facilities, manage deployment of equipment within rehabilitation facilities, manage general facility operations. Logistics/Finance coordinator: coordinate financial and administrative matters relating to wildlife collection, transportation and care.

8. Special Instructions

Attend morning safety and planning briefing. Submit projected personnel requirements for next operational period to immediate supervisor by 1400. Train / supervise assigned volunteers, and report any concerns or conflicts to the volunteer coordinator(s). Immediately report any injury supervisor and complete an injury report form. *Personnel must have completed HAZCOM training.

Volunteers: 888-567-SERV
Claims: 866-753-3619
Public Affairs/JIC: 805-696-1188
State Park Law Enforcement: 951-443-2969
Sherriff's Dispatch: 805-692-5743

Instructions for Dead Wildlife and Natural Resource Protection.

Any LIVE oiled wildlife (birds, mammals, or sea turtles) observed or incidentally collected in clean up operations should be immediately called

ASSIGNMENT LIST

05/23/2015 16:45

ICS 204-CG (Rev.10/07)

in to the Wildlife Hotline at 877-823-6926.

Any DEAD oiled birds, mammals, or sea turtles observed as part of cleanup operations should be called in to the team's supervisor. Supervisors can instruct the team in separating the oiled animal from the regular waste stream and (ideally) collecting it in a separate plastic bag, labeled with division/assignment area, and called into the Wildlife Hotline at 877-823-6926 for Recovery personnel to arrange pick up.

It is critical that clean up teams not dispose of dead marine organisms (invertebrates, crustaceans, anything other than birds or mammals). Stockpile it in a marked area above the high tide line and a Natural Resource Damage Assessment (NRDA) field team will come by around midday/before high tide to ID and catalogue the spill related mortality.

Do not operate vehicles or machinery on the beach within 1/2 mile of Coal Oil Point to protect Western Snowy Plovers.

Do not initiate any on-shore response or cleanup at Coal Oil Point without consulting the USFWS and California Dept of Fish and Game.

9. Communications (radio and/or phone contact numbers needed for this assignment)

Name/Function	Radio Freq./System/Channel	Phone	Cell/Pager

Emergency Communications

Medical	Evacuation	Other

10. Prepared by

Date/Time

05/22/2015 16:00

11. Reviewed By (PSC)

D. Sobieski

Date/Time

5/23/15

12. Reviewed By (OSC)

Chris Gregory

Date/Time

ASSIGNMENT LIST

05/23/2015 16:45

ICS 204-CG (Rev.10/07)

1. Incident Name Refugio Incident		2. Operational Period (Date/Time) From 05/24/2015 06:00 To 05/25/2015 05:59		Operational Period Ops Period 4		Assignment List ICS 204-CG	
3. Branch Wildlife Branch		4. Division/Group/Staging Field Stabilization Group					
Task Force/Strike Team		Team					
5. Operational Personnel		Name		Affiliation		Contact#(s)	
Operations Section Chief		Chris Gregory and Maggie Walden		Witt O'Brien's and EPA			
Branch Director							
Division/Group Supervisor/STAM							
6. Resources Assigned							
Qty x Size (Unit)							
Strike Team/Task Force/Resource Identifier							
Leader							
Contact#							
# Of Persons							
Notes							
2 (each)							
Field Stabilization Staff							
0							
3 (each)							
Field Stabilization Volunteers							
0							
1 (each)							
Wildlife Recovery Personnel - Wildlife Field Stabilization Group Supervisor - Davis							
1 (each)							
Response Trailer - Wildlife Field Stabilization Trailer - Refugio Beach							
3 (each)							
Vehicle - Wildlife Transport Vehicle - Goleta							
3 (each)							
Lodging for field stabilization staff - Goleta							
7. Work Assignments							
Establish field stabilization site(s) near to wildlife recovery operational areas. Complete appropriate census documents, perform brief examinations, and provide initial "first aid" (e.g., warmth, hydration, nutrition) to animals collected by Recovery Group. If veterinarian is present, triage animals for prioritized care. Group Supervisor and Strike Team leaders: complete daily activity reports for submission to the Wildlife Branch Director.							
8. Special Instructions							
Stabilization site established at Santa Barbara Wildlife Care Network (1460 N Fairview Ave, Goleta, CA 93117, 805-681-1080). All Personnel are reminded to stay hydrated and take breaks as necessary.							
Ensure morning safety and planning briefing meetings occur following IAP. Submit projected personnel requirements for next operational period to immediate supervisor by 1400. Train / supervise assigned staff and volunteers, and report any concerns or conflicts to the appropriate supervisor or volunteer coordinator(s). Immediately report any injury to supervisor and complete an injury report form. *Personnel must have completed 24-hr HAZWOPER training if assigned in an exclusion zone; 4-hr HAZCOM training if assigned outside an exclusion zone. All personnel shall wear PPE in accordance with the Site Safety Plan							
9. Communications (radio and/or phone contact numbers needed for this assignment)							
Name/Function		Radio Freq./System/Channel		Phone		Cell/Pager	
Emergency Communications							
Medical:		Evacuation:		Other:			
10. Prepared By		Date/Time		11. Reviewed By (PSC)		Date / Time	
Jason Bergeron		05/22/2015 17:55		D. Sobieski		5/23/15	
12. Reviewed By (OSC)		Date / Time					
Chris Gregory							
ASSIGNMENT LIST							
Generated by Witt O'Brien's							
405/23/2015 19:15							
ICS 204-CG (Rev.10/07)							

Emergency Communications

Medical

Evacuation

Other

10. Prepared by
Jason Bergeron

Date/Time
05/22/2015 17:55

11. Reviewed By (PSC)
D. Sobieski

Date/Time
05/22/2015

12. Reviewed By (OSC)
Chris Gregory

Date/Time

ASSIGNMENT LIST

05/23/2015 16:45

ICS 204-CG (Rev.10/07)

1. Incident Name Refugio Incident	2. Operational Period (Date/Time) From 05/24/2015 06:00 To 05/25/2015 05:59	Operational Period Ops Period 4	Assignment List ICS 204-CG
3. Branch Wildlife Branch	4. Division/Group/Staging Wildlife Care and Processing Group		
Task Force/Strike Team	Team		

5. Operational Personnel	Name	Affiliation	Contact#(s)
Operations Section Chief	Chris Gregory and Maggie Walden	Witt O'Brien's and EPA	
Branch Director	Laird Henkel		
Division/Group Supervisor/STAM	Christine Fiorello		

6. Resources Assigned	'X' indicates 204a attachment with additional instructions
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Qty x Size (Unit)	Strike Team/Task Force/Resource Identifier	Leader	Contact#	# Of Persons	Notes
2 (each)	Team Leader	Kylie Clatterbeck	916-952-3317	0	Kylie Clatterbeck 916-952-3317
12 (each)	Care Processing Staff			0	
5 (each)	Care Volunteers			0	
1 (each)	Wildlife Care & Processing Group Supervisor - Davis/San Pedro				
8 (each)	Wildlife Care & Processing Staff - San Pedro/San Diego				
2 (each)	Wildlife Primary Care Facility - Los Angeles Oiled Bird & Education Center & Sea World, San Diego - Pinnipeds				
4 (each)	Lodging to support field stabilization staff - San Diego/San Pedro				
4 (each)	Vehicle - Wildlife Care & Processing Vehicles				

7. Work Assignments

Establish primary care facilit(ies) to provide processing, intake, pre-wash care, cleaning, and pre-release conditioning to affected animals. Complete appropriate log or census documents, perform intake examinations and triage animals for prioritized care. Collect and secure appropriate evidentiary samples, provide rehabilitation care and maintain individual medical records for contaminated wildlife. Strike Team leaders and coordinators: complete daily activity reports for submission to the C&P Group supervisor.

8. Special Instructions

Bird rehabilitation will occur at the Los Angeles Oiled Bird and Education Center (3601 South Gaffey Street San Pedro, CA 90731). Pinniped rehabilitation will occur at SeaWorld San Diego (500 Sea World Dr, San Diego, CA 92109). All staff will: 1) Attend morning safety and planning briefing. 2) Submit projected personnel requirements for next operational period to immediate supervisor by 1400. 3) Train / supervise assigned volunteers, and report any concerns or conflicts to the volunteer coordinator(s). 4) Immediately report any injury to supervisor and complete an injury report form.
*Personnel must have completed HAZCOM training.

All Personnel shall wear PPE in accordance with the Site Safety Plan

Instructions for Dead Wildlife and Natural Resource Protection.

Any LIVE oiled wildlife (birds, mammals, or sea turtles) observed or incidentally collected in clean up operations should be immediately called in to the Wildlife Hotline at 877-823-6926.

Any DEAD oiled birds, mammals, or sea turtles observed as part of cleanup operations should be called in to the team's supervisor. Supervisors can instruct the team in separating the oiled animal from the regular waste stream and (ideally) collecting it in a separate plastic bag, labeled with division/assignment area, and called into the Wildlife Hotline at 877-823-6926 for Recovery personnel to arrange pick up.

It is critical that clean up teams not dispose of dead marine organisms (invertebrates, crustaceans, anything other than birds or mammals). Stockpile it in a marked area above the high tide line and a Natural Resource Damage Assessment (NRDA) field team will come by around midday/before high tide to ID and catalogue the spill related mortality.

Do not operate vehicles or machinery on the beach within 1/2 mile of Coal Oil Point to protect Western Snowy Plovers.

10. Prepared By Jason Bergeron	Date/Time 05/22/2015 17:30	11. Reviewed By (PSC) D. Sobieski	Date / Time 5/22/15	12. Reviewed By (OSC) Chris Gregory	Date / Time
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ASSIGNMENT LIST

05/23/2015 19:16

ICS 204-CG (Rev.10/07)

1. Incident Name Refugio Incident	2. Operational Period (Date/ Time) From 05/24/2015 06:00 To 05/25/2015 05:59	Operational Period Ops Period 4	Assignment List ICS 204-CG
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3. Branch Wildlife Branch	4. Division/Group/Staging Wildlife Reconnaissance
Task Force/Strike Team	Team

5. Operational Personnel	Name	Affiliation	Contact#(s)
Operations Section Chief	Chris Gregory and Maggie Walden	Witt O'Brien's and EPA	
Branch Director	Laird Henkel		
Division/Group Supervisor/STAM	K. Bigham		

6. Resources Assigned							
'X' indicates 204a attachment with additional instructions							
Qty	Size	Unit	Strike Team/Task Force/Resource Identifier	Leader	Contact#	# Of Persons	Notes
1	0	each	Fixed Wing				
4	0	each	Wildlife Personnel				

7. Work Assignments
Survey impacted area for wildlife to species level.
Communication with other aircraft on VHF 10, 11 & 16

8. Special Instructions
--Beware of foot placement --Eyes on Path

Instructions for Dead Wildlife and Natural Resource Protection.

Any LIVE oiled wildlife (birds, mammals, or sea turtles) observed or incidentally collected in clean up operations should be immediately called in to the Wildlife Hotline at 877-823-6926.

Any DEAD oiled birds, mammals, or sea turtles observed as part of cleanup operations should be called in to the team's supervisor. Supervisors can instruct the team in separating the oiled animal from the regular waste stream and (ideally) collecting it in a separate plastic bag, labeled with division/assignment area, and called into the Wildlife Hotline at 877-823-6926 for Recovery personnel to arrange pick up.

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Do not initiate any on-shore response or cleanup at Coal Oil Point without consulting the USFWS and California Dept of Fish and Game.

9. Communications (radio and/or phone contact numbers needed for this assignment)
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Name/Function	Radio Freq./System/Channel	Phone	Cell/Pager

Emergency Communications

Medical

Evacuation

Other

10. Prepared by
Jason Bergeron

Date/Time
05/22/2015 18:03

11. Reviewed By (PSC)
D. Sobieski

Date/Time
5/23/2015

12. Reviewed By (OSC)
Chris Gregory

Date/Time

ASSIGNMENT LIST

05/23/2015 16:45

ICS 204-CG (Rev.10/07)

1. Incident Name Refugio Incident		2. Operational Period (Date/Time) From 05/24/2015 06:00 To 05/25/2015 05:59		Operational Period Ops Period 4	Assignment List ICS 204-CG
3. Branch Wildlife Branch		4. Division/Group/Staging Wildlife Recovery Group			
Task Force/Strike Team		Team			
5. Operational Personnel		Name	Affiliation	Contact#(s)	
Operations Section Chief		Chris Gregory and Maggie Walden	Witt O'Brien's and EPA		
Branch Director		Laird Hinkel			
Division/Group Supervisor/STAM		K. Parker			
6. Resources Assigned					
'X' indicates 204a attachment with additional instructions					
Qty x Size (Unit)	Strike Team/Task Force/Resource Identifier	Leader	Contact#	# Of Persons	Notes
13 (each)	Wildlife Recovery Staff			0	
1 (each)	Transport Coordinator			0	
1	Transport Staff			0	
1 (each)	Wildlife Recovery Personnel - Group Supervisor - Refugio Beach				
22 (each)	Wildlife Recovery Personnel - Recovery Staff - Refugio Beach			0	
1 (each)	Van - Sprinter Van/Wildlife Recovery Command Post - Refugio Beach				
6 (each)	Pickup Truck - Wildlife Recovery Vehicles				
12 (each)	Lodging for Wildlife Recovery Personnel				
1 (each)	Wildlife Recovery Personnel - Deputy Wildlife Branch Director				
3 (each)	Wildlife Recovery Personnel - Wildlife Coordinator Staff - Davis & ICP				
7. Work Assignments					
Wildlife Recovery Group Supervisor: coordinate and supervise recovery of oiled wildlife and report to Wildlife Branch Director. Wildlife Recovery Staff: conduct searches of assigned divisions for oiled wildlife, and collect using standard protocols. Transport Coordinator: coordinate and supervise transport teams for assigned areas. Transport Staff: transport wildlife to stabilization trailer at wildlife staging area and/or from stabilization trailer to facility.					
8. Special Instructions					
Attend morning safety and planning briefing. Immediately report any injury to supervisor and complete an injury report form. *Personnel must have completed 24-hour HAZWOPER training and OWCN Wildlife Recovery Levels 1 and 2, at minimum. -Avoid Slips, trips and falls					
Instructions for Dead Wildlife and Natural Resource Protection.					
Any LIVE oiled wildlife (birds, mammals, or sea turtles) observed or incidentally collected in clean up operations should be immediately called in to the Wildlife Hotline at 877-823-6926.					
Any DEAD oiled birds, mammals, or sea turtles observed as part of cleanup operations should be called in to the team's supervisor. Supervisors can instruct the team in separating the oiled animal from the regular waste stream and (ideally) collecting it in a separate plastic bag, labeled with division/assignment area, and called into the Wildlife Hotline at 877-823-6926 for Recovery personnel to arrange pick up.					
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Do not operate vehicles or machinery on the beach within 1/2 mile of Coal Oil Point to protect Western Snowy Plovers.					
10. Prepared By	Date/Time	11. Reviewed By (PSC)	Date / Time	12. Reviewed By (OSC)	Date / Time
Jason Bergeron	05/22/2015 17:58	D. Sobieski	5/23/15	Chris Gregory	
ASSIGNMENT LIST		05/23/2015 19:17		ICS 204-CG (Rev.10/07)	

Do not initiate any on-shore response or cleanup at Coal Oil Point without consulting the USFWS and California Dept of Fish and Game. *W.A.A.*

9. Communications (radio and/or phone contact numbers needed for this assignment)

Name/Function	Radio Freq./System/Channel	Phone	Cell/Pager
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Emergency Communications

Medical:	Evacuation:	Other:
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10. Prepared By	Date/Time	11. Reviewed By (PSC)	Date / Time	12. Reviewed By (OSC)	Date / Time
Jason Bergeron	05/22/2015 17:58	D. Sobieski <i>MS</i>	<i>5/22/15</i>	Chris Gregory	
ASSIGNMENT LIST			05/23/2015 19:17	ICS 204-CG (Rev.10/07)	

1. Incident Name Refugio Incident	2. Operational Period (Date/ Time) From 05/24/2015 06:00 To 05/25/2015 05:59	Operational Period Ops Period 4	Assignment List ICS 204-CG
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3. Branch Environmental Unit	4. Division/Group/Staging
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Task Force/Strike Team	Team
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5. Operational Personnel Name Operations Section Chief D. Sobieski Branch Director	Affiliation	Contact#(s)
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6. Resources Assigned *X' indicates 204a attachment with additional instructions

Qty	Size	Unit	Strike Team/Task Force/Resource Identifier	Leader	Contact#	# Of Persons	Notes
1		each	Response Personnel-FOSC/Env.Uint				
1		each	Waste Coordinator to draft and implement Waste Management Plan				
2		each	SCAT Team				
1		each	Wildlife Observer - USFWS supporting IC				
5		each	Environmental Monitoring Personnel-Environmental Sampling Personnel				
1	2	each	1-2 person sampling team (CTEH) to implement the approved Env SAP				
1		each	ENV. Scientist - USEPA ECO Toxicologist				
1		each	ENV. Scientist - Sampling and Analysis Plan and Implementation				
1		each	Office Trailer				
1		each	ENV. Scientist - Offsite to draft Quality Assurance Project Plan				
1		each	ENV. Scientist - NOAA submerged oil expert to perform submerged oil assessment				

7. Work Assignments

Collect water and sediments samples per the environmental sampling and analysis plan.

8. Special Instructions

Comply with HASP (Health and safety plan)
Beware of foot placement, eyes on path.

Instructions for Dead Wildlife and Natural Resource Protection.

Any LIVE oiled wildlife (birds, mammals, or sea turtles) observed or incidentally collected in clean up operations should be immediately called in to the Wildlife Hotline at 877-823-6926.

Any DEAD oiled birds, mammals, or sea turtles observed as part of cleanup operations should be called in to the team's supervisor. Supervisors can instruct the team in separating the oiled animal from the regular waste stream and (ideally) collecting it in a separate plastic bag, labeled with division/assignment area, and called into the Wildlife Hotline at 877-823-6926 for Recovery personnel to arrange pick up.

ASSIGNMENT LIST

05/23/2015 16:45

ICS 204-CG (Rev.10/07)

1. Incident Name	2. Operational Period (Date/ Time)	Operational Period	Assignment List
Refugio Incident	From 05/24/2015 06:00 To 05/25/2015 05:59	Ops Period 4	ICS 204-CG

3. Branch	4. Division/Group/Staging
Environmental Unit	Public Health

Task Force/Strike Team	Team

5. Operational Personnel	Name	Affiliation	Contact#(s)
	Operations Section Chief D. Sobieski		
	Branch Director		
	Division/Group Supervisor/STAM		

6. Resources Assigned

'X' indicates 204a attachment with additional instructions

Qty	Size	Unit	Strike Team/Task Force/Resource Identifier	Leader	Contact#	# Of Persons	Notes
2	0	each	Sampling Team #1	Lourdes Mahoney	813-391-4657		
2	0	each	Sampling Team #2	Kristen Karnes	615-574-5409		
1	0	each	Sampling Team #3	Ike Clean Seas	805-455-5500		
1		each	ENV. Scientist - CA State Department of Health (Offsite)				

7. Work Assignments

Collect water and sediment samples per the environmental sampling and analysis plan. Plan is pending approval

8. Special Instructions

- Comply with HASP (Health and Safety Plan)
- Beware of foot placement---Eyes on Path

Instructions for Dead Wildlife and Natural Resource Protection.

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Do not operate vehicles or machinery on the beach within 1/2 mile of Coal Oil Point to protect Western Snowy Plovers.

Do not initiate any on-shore response or cleanup at Coal Oil Point without consulting the USFWS and California Dept of Fish and Game.

9. Communications (radio and/or phone contact numbers needed for this assignment)

Name/Function	Radio Freq./System/Channel	Phone	Cell/Pager
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ASSIGNMENT LIST

05/23/2015 16:45

ICS 204-CG (Rev.10/07)

Emergency Communications

Medical

Evacuation

Other

10. Prepared by
Kyle Jellison

Date/Time
05/21/2015 19:36

11. Reviewed By (PSC)
D. Sobieski

Date/Time

12. Reviewed By (OSC)
Chris Gregory

Date/Time

ASSIGNMENT LIST

05/23/2015 16:45

ICS 204-CG (Rev.10/07)

1. Incident Name <u>Refugio Incident</u>		2. Operational Period (Date/Time) From: 05/24/2015 0600 To: 05/25/2015 0600		Assignment List ICS 204-CG																																																																															
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7. Work Assignments -Report to forward command post at Refugio State Park at 0700; meet at Red Barn. Team 5 will meet at Devereux Slough -POC BMI Judan Fields 415-559-9985 to SCAT Field Base -Receive assignments, read and sign site safety plan and calibrate -Complete SCAT assignments by 1500, return to ICP at 1600 for briefing with SCAT Coordinator (Corey Kong).																																																																																			
8. Special Instructions -Get booties and other PPE from OPS on scene. -Refer public wildlife reports to OWCN 877-823-6926. -Report oiled wildlife to wildlife branch director or deputy. Refer all media requests to PIO Steve Gonzales 916-539-6129. **SCAT Teams to assess staging and waste stockpile areas for environmental sensitivity and report back to SCAT coordinator.** **For Cultural/Archaeological concerns, Sean Ross, Field Observer Coordinator 415-720-4166 & Lt. Mike Horn, Warden 760-964-2312**																																																																																			
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Date/Time 05/23/2015 1730		Date/Time 05/25/2015 0600		Date/Time 05/25/2015 0600																																																																															

SCAT

Sunday 05/24/2015

Start 0700,

Finish @ 1500, Debrief 1600 @ Command Post

SCAT TEAMS	SURVEY AREA	LEADER	MEMBERS	ACTIVITIES
1	Division I	Sonia Torres- OSPR (562) 370-6794	USFWS-Bill Standley (805) 236-1623 USCG-Sheridan McClellan (860) 326-4334 Stantec-Kai Pavel (805) 648-1499 OSPR-Dale Stultz (530) 768-4767	Meet @ 0700 @ Red Barn Refugio State Beach
2	Division J & K	Steve Foss- OSPR (916) 416-8908	USFWS-Chris Dellith (805) 407-3634 USCG-Heather Clark (336) 406-4165 Plains- Eric Hicks (619) 296-6195 NOAA-Jen Weaver (386) 341-6917	Meet @ 0700 @ Red Barn Refugio State Beach
3	Division L	David Lyons- OSPR (562) 666-5039	USFWS-Annie Little (760) 522-2567 USCG-Laura Holland (251) 441-5911 Plains-Kirk Hennings (805) 234-0478 OSPR-Mike Schommer (707) 416-1141	Meet @ 0700 @ Red Barn Refugio State Beach
4	Division M	Sean Kelly- OSPR (707) 322-2176	USFWS-Colleen Draguesku (949) 378-6513 USCG-Jeremy Leggett (415) 419-1256 Stantec-Keith Posekian (805) 338-5650	Meet @ 0700 @ Red Barn Refugio State Beach
5	Division N	Ken Wilson- OSPR (805) 558-1006	USFWS-John Henderson (916) 799-0588 USCG-Judah Fields (415) 559-9985 Plains-Matt Bernard (401) 369-4355 OSPR-Diana Grosso (661) 426-5276 SB Co. Env Health -Paul McCaw-(805) 896-6344	Meet @ 0700 @ Devereux Slough @ end of Stork Road, gate combo #0011 GPS way point 34.462045 120.07555
SCAT TEAMS	SURVEY AREA	LEADER	MEMBERS	ACTIVITIES

1. Incident Name Refugio Incident		2. Operational Period (Date/Time) From 05/24/2015 06:00 To 05/25/2015 05:59		Operational Period Ops Period 4	Assignment List ICS 204-CG
3. Branch Recovery Branch		4. Division/Group/Staging Field Observers Group			
Task Force/Strike Team		Team			

5. Operational Personnel	Name	Affiliation	Contact#(s)
Operations Section Chief	Chris Gregory	Witt O'Brien's and USCG	
Branch Director	Maggie Waldon	EPA	
Division/Group Supervisor/STAM			

6. Resources Assigned					'X' indicates 204a attachment with additional instructions	
Qty x Size (Unit)	Strike Team/Task Force/Resource Identifier	Leader	Contact#	# Of Persons	Notes	
6	Tribal Volunteer			0		
6	USCG Rep			0		
6	Archeologist / Cultural Rep			0		
6	F & W L Rep			0		
6	Responsible Party			0		

7. Work Assignments

Form six teams of field observers to provide support to responders in order to ensure no delays in cleanup activities. FOB's will report oily debri recovery in cubic yards in their site as per their specific team as per the FOB plan. All FOBs shall follow all criteria in the field observers plan.

8. Special Instructions

Volunteers: 1-800-228-4544
 Claims: 866-753-3619
 Public Affairs/JIC: 805-696-1188
 State Park Law Enforcement: 951-443-2969
 Sherriffs Dispatch: 805-692-5743

Instructions for Dead Wildlife and Natural Resource Protection.

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Do not operate vehicles or machinery on the beach within 1/2 mile of Coal Oil Point to protect Western Snowy Plovers.

Do not initiate any on-shore response or cleanup at Coal Oil Point without consulting the USFWS and California Dept of Fish and Game.

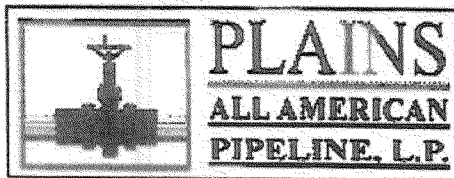
On Water: Avoid entering kelp beds as much as possible. Avoid boat traffic traveling near or through flocks of seabirds resting on water, stay 1000 ft away from nesting seabirds. If sea otter is observed keep clear and call Mike Harris immediatly. 831-212-7090

9. Communications (radio and/or phone contact numbers needed for this assignment)			
Name/Function	Radio Freq./System/Channel	Phone	Cell/Pager

10. Prepared By	Date/Time	11. Reviewed By (PSC)	Date / Time	12. Reviewed By (OSC)	Date / Time
	02/07/2015 16:00	D. Sobieski	5/23 18:57	Chris Gregory	

ASSIGNMENT LIST

Emergency Communications			
Medical		Evacuation	
Other			
10. Prepared By (Resource Unit Leader)		11. Approved By (Planning Section Chief)	
<i>[Signature]</i> Date/Time: 5/22/15		<i>[Signature]</i> Date/Time: 5/22/15 7:05	
ASSIGNMENT LIST		June 2000	
		ICS 204-OS	



May 21, 2015
Rev 0

Excavation and Verification Plan
at
Station 355+75

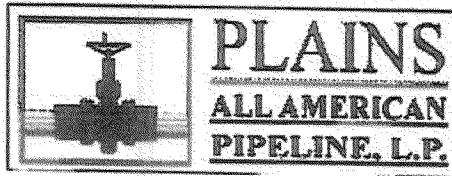
FOSC JA NR

SOSC NR

LOSC Ea

RP NR B

- 1) safety officer & ^{air} monitoring present during operations
- 2) consultation w/ archeologist to determine if any concerns exist, if so archeologist ^{to be} monitor present
- 3) minimum of 25' from potential release location
- 4) all recovered oil will be quantified in accord w/ waste management plan



Objective:

Excavate Line 901 and install tap to verify that the pipeline is empty prior to excavation at release site. If line is confirmed empty, continue to expose pipe at the release site.

Scope of Work

Prerequisites -Prior to work indicated

1. Schedule and ensure that all contractors have all specific training and all required documentation including OQ certs. (Form 706). Identify the Competent Person for the excavation.
2. Plains inspector will utilize a Work Authorization Permit and Hot Work Permit. See attached example of the Work Authorization Permit.
3. The Mechanical contractor will obtain a tapping machine rated for a minimum 300 of psi.
4. Schedule 100 bbl. vac truck to drain down pipeline through tap.
5. Make arrangements for transportation of collected product in vacuum truck into storage tank specified by operations.
6. Conduct pre-job meeting prior to starting work.

Contact List-

Plains Pipeline Console- Midland TX

432-687-9312 (W)

Additional contacts are specified in the Work Authorization Permit

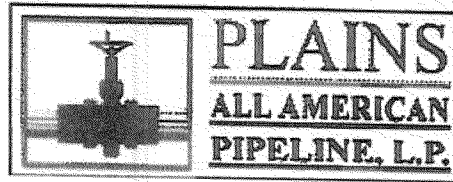
Excavation and Tapping

- 1) Verify that the following L901 valves have been previously closed and "locked out and tagged out":

- a. Las Flores, Mov-0109C
- b. Station 417+17, Mov-01V01
- c. Gaviota, Mov-0208C

Contractors will lock and tag valves in conjunction with Plains employees. See attached Work Permit example for equipment isolation list requirements.

- 2) Excavate line at Station 355+50. (See Pipeline Excavation/Ditching and Backfill Procedure attached)
- 3) Prepare pipe for tapping.



- 4) Install Tap Machine and tap pipe.
- 5) Install pressure gauge to verify pressure.
- 6) Connect vac truck hose and pull vacuum for verification of pipe contents. Remove any residual oil.
- 7) When pipe is determined empty, excavation of the remaining pipe may continue.
- 8) Containment berms will be constructed around the release site prior to excavation. Additional vacuum trucks and roll off bins will be available at the site.
- 9) As an additional precaution, the culvert opening at the release site will be protected.
- 10) Excavation will begin to remove the soil and expose the pipe at the release site.



PLAINS

Permit Tracking Number: _____

Work Authorization Permit

COPY OF PERMIT MUST BE POSTED AT WORK SITE.

JOB SAFETY ANALYSIS / HOT WORK / CONFINED SPACE ENTRY TRENCHING & EXCAVATION / LOCAL SAFE WORK*

The Work Authorization Permit is designed to be used as a Job Safety Analysis in job Pre-Planning to identify recognized hazards and to foster communication about the safety aspects of the work being authorized and performed and is intended to be used along with Plains' Safe Operating Policies, Procedures & Practices Manual and any other applicable regulatory / company requirements.

- **Retention:** All Permits must be retained for one year from date of issue.
- **Distribution:** Distribute this page (Pg1) or (All) entire WAP to affected individuals or groups identified below prior to performing work. Other copies may be required by local procedures.

Department	Pg1	All	Person Notified	Date	Department	Pg1	All	Person Notified	Date
Person in Charge:	<input type="checkbox"/>	<input type="checkbox"/>			Maintenance:	<input type="checkbox"/>	<input type="checkbox"/>		
Control Center:	<input type="checkbox"/>	<input type="checkbox"/>			Operations:	<input type="checkbox"/>	<input type="checkbox"/>		
Scheduling:	<input type="checkbox"/>	<input type="checkbox"/>			Engineering:	<input type="checkbox"/>	<input type="checkbox"/>		
Safety:	<input type="checkbox"/>	<input type="checkbox"/>			Measurement:	<input type="checkbox"/>	<input type="checkbox"/>		
Environmental:	<input type="checkbox"/>	<input type="checkbox"/>			SCADA	<input type="checkbox"/>	<input type="checkbox"/>		

PROJECT START DATE: _____

TIME: _____

PROJECT END DATE: _____

TIME: _____

Check all that apply:

- | | | |
|--|---|--|
| <input type="checkbox"/> Local Safe Work*
Pages 1, 2, 3, & 5 | <input type="checkbox"/> Excavation
Pages 1, 2, 3, & 5 | <input type="checkbox"/> Permit Required, Alternate Entry, Confined Space
Pages 1, 2, 3, 4, & 5 |
| <input type="checkbox"/> Hot Work/Hot Tapping
Pages 1, 2, 3, 4, & 5 | <input type="checkbox"/> Lockout/Tagout
Page 1 | <input type="checkbox"/> Confined Space
Pages 1, 2, 3, 4, & 5 |

JOB LOCATION

When no address is available, include nearest street & cross-reference & GPS if available.

Division: _____	District: _____	Facility: _____
Address: _____		
GPS Coordinates: Latitude _____		Longitude _____

JOB DESCRIPTION

Include equipment ID and type of work being performed.

Plains Representative: _____	Email Address: _____	Phone: () _____
Contractor Representative: _____	Company: _____	Phone: () _____

Discuss Emergency Contingency Plan (i.e. direction to location escape routes, muster points, alarm/warning signals, etc)
(Attach supplemental if additional space is required)

LOCKOUT / TAGOUT EQUIPMENT ISOLATION PLAN FOR PROJECT (Include Cathodic Protection Equip. / Bond LOTO Status)

Note: If additional space is needed... refer to Sections 2.10 & 2.11 of the Safe Operating Policies and Procedures, and Practices Manual for a larger Equipment Isolation List form and additional information regarding the isolation and control of potentially hazardous energy sources.

Type of Lockout/Tagout Performed: Individual ☐ Group ☐

Person(s) Affected: _____

Person Performing Action	Equip. ID	Location	Original Position			Isolation Position				Final Position			
			POS OP/CL	Blind Y/N	Power On/Off	POS OP/CL	Blind Y/N	Power On/Off	LOTO Y/N	POS OP/CL	Blind Y/N	Power On/Off	LOTO Y/N

Was the LOTO procedure performed correctly, adequate and easily understood by both the authorized and affected employees?
If answer is NO, notify the employees immediate Supervisor to schedule additional LOTO training for the employee(s) involved.

YES ☐ NO ☐

LOCAL SAFE WORK PROCEDURE: In the judgment of local supervision, the job requires a permit. For example, permit may be used as a contractor site-entry permit or as safe work plan format for nitrogen purging, LOTO etc...

Complete: ☐ Before the Job ☐ At the Job ☐ During the Job ☐ At Job Completion ☐ After the Job

PAGE 1

UNIVERSAL PROJECT REQUIREMENTS

Smoking in Designated Areas Only • No Alcohol, Drugs or Firearms • Horseplay is Strictly Prohibited
Housekeeping is Everyone's Responsibility • Strict Adherence to PPE Requirement for Job as identified below

REQUIRED SAFETY EQUIPMENT (List additional specific safety equipment in written safe work plan)

REQUIRED		ON SITE VERIFICATION		REQUIRED		ON SITE VERIFICATION	
N/A	Y			Y	N/A	Y	
<input type="checkbox"/>	<input type="checkbox"/>		Hard Hats	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fall Protection
<input type="checkbox"/>	<input type="checkbox"/>		Eye / Face Protection (e.g. goggles, face shield)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Confined Space Tripod, Hoist, Harness
<input type="checkbox"/>	<input type="checkbox"/>		Safety Shoes - ANSI Approved Safety Toed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Two Way Radios (Designed for area classification)
<input type="checkbox"/>	<input type="checkbox"/>		Fire Retardant Clothing (FRC)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	GFCI Protected Electrical Sources
<input type="checkbox"/>	<input type="checkbox"/>		Hearing Protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fresh Air Breather Box
<input type="checkbox"/>	<input type="checkbox"/>		Respiratory Equipment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Bonding Clamps / Ground Rod
<input type="checkbox"/>	<input type="checkbox"/>		Lockout - Tagout Devices / Locks / Blinds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Warning Signs / Barricade
<input type="checkbox"/>	<input type="checkbox"/>		LEL, O2 Monitor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Shoring and/or Shoring Box
<input type="checkbox"/>	<input type="checkbox"/>		H2S Monitor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Portable Lighting
<input type="checkbox"/>	<input type="checkbox"/>		Benzene Detector	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Welding Blankets, Curtains, Protective Barriers, etc.
<input type="checkbox"/>	<input type="checkbox"/>		First Aid Kit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other _____
<input type="checkbox"/>	<input type="checkbox"/>		Fire Extinguisher	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other _____

E-WORK CHECK LIST

REQUIRED		COMPLETED		
N/A	Y			
<input type="checkbox"/>	<input type="checkbox"/>		Verbally notified affected personnel.	Date: _____
<input type="checkbox"/>	<input type="checkbox"/>		Who was notified?	_____
<input type="checkbox"/>	<input type="checkbox"/>		Checked for hidden or buried pipelines or wire cables.	_____
<input type="checkbox"/>	<input type="checkbox"/>		Notified the LOCAL/STATE ONE -CALL SYSTEM?	Confirmation number: _____
<input type="checkbox"/>	<input type="checkbox"/>		All Hazardous Energy Sources Locked and Tagged Out. (Cover in Safe Work Plan, Complete Equipment Isolation List. Refer to Section 2.10 & 2.11 in the Safety Manual for additional LOTO information.	
<input type="checkbox"/>	<input type="checkbox"/>		Area secured with warning signs, flags, and barricades in place.	
<input type="checkbox"/>	<input type="checkbox"/>		Safety, fire and personal protective equipment available and functional.	
<input type="checkbox"/>	<input type="checkbox"/>		Bonding cables installed.	
<input type="checkbox"/>	<input type="checkbox"/>		Rectifiers turned off and critical bonds removed. Record equipment LOTO status on Equipment Isolation List.	
<input type="checkbox"/>	<input type="checkbox"/>		Sources of ignition removed.	
<input type="checkbox"/>	<input type="checkbox"/>		(Cell Phones, Pagers, Cameras and other electronic equipment must be rated for use in accordance with the area classification)	
<input type="checkbox"/>	<input type="checkbox"/>		Identify potential Exposure Hazards (e.g. Asbestos, Lead, Benzene, Other) Explain: _____	
<input type="checkbox"/>	<input type="checkbox"/>		Verified that other work in the area will not affect conditions of the job.	
<input type="checkbox"/>	<input type="checkbox"/>		PRE-JOB SAFETY ORIENTATION CONDUCTED & DOCUMENTED (including Haz-Com & Emergency Procedures)	
<input type="checkbox"/>	<input type="checkbox"/>		MSDS available.	
<input type="checkbox"/>	<input type="checkbox"/>		COPY OF PERMIT POSTED AT THE JOB SITE.	
<input type="checkbox"/>	<input type="checkbox"/>		Is work being performed on a DOT Jurisdictional pipeline? If Yes, Does project include OpQual covered tasks? If yes, review Abnormal Operating Conditions (AOC) and complete OpQual Form 706 (Projects with Covered Tasks) prior to starting project.	
<input type="checkbox"/>	<input type="checkbox"/>		Does project involve Management of Change? If yes, complete MOC form 705 & make necessary distributions.	

WRITTEN SAFE WORK PLAN AND SPECIFIC JOB TASKS AND POTENTIAL HAZARDS

it details: Attach Safe Work Plan if additional space is required. Do not repeat Plan here if attached Safe Work Plan is used. Attach Contractor's Permits and Plans, if applicable.

Complete: ☐ Before the Job ☐ At the Job ☐ During the Job ☐ At Job Completion ☐ After the Job

WELDING PERMIT ORIENTATION LOG (For additional names or names of persons assigned to job after initial orientation, attach additional page)

Signature	Date	Signature	Date	Signature	Date

☐ Additional signatures and dates are included on back of this page

INITIAL PERMIT AUTHORIZATION / RENEWAL / DURATION

Work Permit is only good for date issued?	<input type="checkbox"/> YES <input type="checkbox"/> NO	Start Time:	Start Date:	Expire Date:							
Is the Work Permit Renewable?	<input type="checkbox"/> YES <input type="checkbox"/> NO	Record daily Safety Review of Work Permit Conditions when Renewable									
Plains and Contractor Representative Approval Signatures		Day	2	3	4	5	6	7	8	9	10
Plains Rep:		Date									
Contractor Rep:		Initials (Plains Rep)									
Contractor Name:		Initials (Contract Rep)									

TRANSFER OF AUTHORIZATION ACROSS SHIFTS / ROTATIONAL PERSONNEL (Plains Representative)

I have reviewed, agree with and accept the terms of the permit. I hereby accept responsibility for authorization.

Shift	Time	Date	Signature

TRANSFER OF AUTHORIZATION ACROSS SHIFTS / ROTATIONAL PERSONNEL (Contractor Representative) (Requires Plains Representative approval)

I have reviewed, agree with and accept the terms of the permit. I hereby accept responsibility for authorization.

Shift	Time	Date	Signature

HOT WORK SECTION

EMERGENCY PLAN ESTABLISHED AND COMMUNICATED.

REQUIRED	COMPLETED	
N/A	Y	
<input type="checkbox"/>	<input type="checkbox"/>	See attached Contractor Permits.
<input type="checkbox"/>	<input type="checkbox"/>	Product Type _____ Pressure _____ Flow Rate _____
<input type="checkbox"/>	<input type="checkbox"/>	Remove unnecessary equipment and personnel from Hot Work area.
<input type="checkbox"/>	<input type="checkbox"/>	Secure or rope off Hot Work area.
<input type="checkbox"/>	<input type="checkbox"/>	Cover and close all drains and sumps.
<input type="checkbox"/>	<input type="checkbox"/>	Place welding blankets, curtains, etc. as needed to prevent ignition of product during Hot Work activities.
<input type="checkbox"/>	<input type="checkbox"/>	Position up wind, minimum of two 20# dry chemical fire extinguishers and designated fire watch.
<input type="checkbox"/>	<input type="checkbox"/>	Designated fire watch(s): 1. _____ 2. _____
<input type="checkbox"/>	<input type="checkbox"/>	Note: Fire watches must remain at work site 30 minutes after completion of Hot Work
<input type="checkbox"/>	<input type="checkbox"/>	Designated vent watch(s): 1. _____ 2. _____
<input type="checkbox"/>	<input type="checkbox"/>	If line cut, install vapor plugs.
<input type="checkbox"/>	<input type="checkbox"/>	Hot tapping machine rated for the line pressure.
<input type="checkbox"/>	<input type="checkbox"/>	Establish correct flow and pressure.
<input type="checkbox"/>	<input type="checkbox"/>	Take ultrasonic readings or pit gauge readings. Results: Record nominal and actual min. wall thickness.
<input type="checkbox"/>	<input type="checkbox"/>	Nominal: _____ Actual Minimum: _____
<input type="checkbox"/>	<input type="checkbox"/>	Recorded By: _____ Date: _____
<input type="checkbox"/>	<input type="checkbox"/>	Thickness Criteria: The Engineering Dept. must be notified PRIOR to welding on any in-service pipe with a wall thickness less than 0.188 wall too ensure weld can be made safely.
<input type="checkbox"/>	<input type="checkbox"/>	Welding Procedure #: _____ Pipe Grade/Type: _____ Thickness: _____

ADDITIONAL REQUIREMENTS:

PERMIT-REQUIRED CONFINED SPACE ENTRY SECTION

If LEL is greater than 10%, no entry is allowed.

MANDATORY REQUIREMENTS (Used only when Permit Required Confined Space applies)

- Permit-Required Confined Space Properly Ventilated
- Atmospheric Monitoring Section Completed
- Rescue Plan In Place (Refer to Safe Work Plan on Page 2 for Rescue Provider and Rescue Plan – Rescue Personnel Must be Qualified)
- Communication Established ☐ Verbal ☐ Radio ☐ Mechanical ☐ Other _____
- Hazards of PRCS (Check all that apply)
 - ☐ Atmospheric
 - ☐ Engulfment
 - ☐ Configuration
 - ☐ Other _____
- Respiratory Equipment On Site
- Respirator Users Must Be Qualified

try Supervisor's Name: _____

Signature: _____

Contact Info: _____

tendant's Name: _____

Signature: _____

Contact Info: _____

tendant's Name: _____

Signature: _____

Contact Info: _____

REQUIRED COMPLETED

☐ N/A ☐ Y
☐ See attached Contractor Permits
☐ Fresh Air Blower
☐ Respiratory Protection
☐ Air Purifying ... Cartridge Type > _____

REQUIRED COMPLETED

☐ Y ☐ N/A ☐ Y
☐ Air Supplied Respirator
☐ Retrieval Device
☐ Escape Harness
☐ Emergency Notification Alarm Type _____

REQUIRED COMPLETED

☐ Y ☐ N/A ☐ Y
☐ Atmospheric Monitor
☐ Lighting
☐ Other: _____

PERMIT REQUIRED CONFINED SPACE ENTRANT LOG (Used only when PRCS applies)

Use Supplemental Form if additional entries are needed.

NAME: <i>Print</i>	<i>Signature</i>	TIME IN	TIME OUT	TIME IN	TIME OUT	DATE

ATMOSPHERIC MONITORING SECTION

Reason for monitoring: Hot Work ☐ Permit-Required Confined Space Entry ☐ Confined Space Entry ☐ Ind. Hygiene ☐

Check box if contractor is using their own atmospheric monitoring form: ☐ Contractor Signature: _____

TEST EQUIPMENT USED	MANUFACTURER	SERIAL #	CALIBRATION DATE

Continuous Monitoring

Initial reading by: _____

Equip/Location: _____

☐ Y ☐ N

Reading every _____

Minutes

Documented by: _____

	LIMIT	INITIAL READING	TIME	READING	TIME	READING	TIME	READING	TIME	READING	TIME	READING	TIME
	19.5%-23.5%												
L	10%*												
S	10 ppm												
NZENE	1 ppm												
HER													
	19.5%-23.5%												
L	10%*												
S	10 ppm												
NZENE	1 ppm												
HER													

Complete: ☐ Before the Job ☐ At the Job ☐ During the Job ☐ At Job Completion ☐ After the Job

47 of 87

EXCAVATION SECTION

EXCAVATION REQUIREMENTS

Excavation properly shored, sloped or benched with safe means of egress (minimum of 25 feet).

Workers maintain safe distance while equipment is in operation.

Spoil pile must be at least 2 feet away from the edge of the excavation.

Notify CAL/OSHA if excavation is deeper than 5 ft and personnel will be entering the excavation. (Calif. Only 48 hrs Prior)

Foreign objects unearthed must be safely identified using appropriate procedures & equipment when encountered.

No excavation may be dug without making proper notification via the appropriate Local/State One-Call System.

REQUIRED	COMPLETED	
N/A	Y	

- | | | |
|--------------------------|--------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> | See attached Contractor Permits |
| <input type="checkbox"/> | <input type="checkbox"/> | "Competent Person" on site while excavation is in progress. |
| <input type="checkbox"/> | <input type="checkbox"/> | Excavations 20 feet or deeper require the services of a Registered Professional Engineer. Name: _____ |
| <input type="checkbox"/> | <input type="checkbox"/> | Other: _____ |

Soil Type: ☐ Stable Rock ☐ Type A - Slope or Bench 1 to 3/4 ☐ Type B - S/B 1 to 1 ☐ Type C - S/B 1 to 1-1/2

SOIL TYPES: Type A: Clay, Silty Clay, Sandy Clay and Sandy Clay Loam Type B: Silt, Silty loam, Sandy loam

Type C: Gravel, Sand and Sandy Loam, submerged soil or soil from which water is freely seeping.

JOB COMPLETION CHECKLIST

REQUIRED	COMPLETED	
N/A	Y	

- | | | |
|--------------------------|--------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> | Vented air/nitrogen from line? |
| <input type="checkbox"/> | <input type="checkbox"/> | Pressure bled off? |
| <input type="checkbox"/> | <input type="checkbox"/> | Have vent holes been repaired? |
| <input type="checkbox"/> | <input type="checkbox"/> | Vapor plugs removed or displaced |
| <input type="checkbox"/> | <input type="checkbox"/> | Have blinds/skillets been removed? |
| <input type="checkbox"/> | <input type="checkbox"/> | Are all lockout/tagout devices removed from work area? |
| <input type="checkbox"/> | <input type="checkbox"/> | Have all affected parties been notified that the job is complete? |
| <input type="checkbox"/> | <input type="checkbox"/> | Have all rectifiers been turned back on and all bonds connected? |
| <input type="checkbox"/> | <input type="checkbox"/> | Housekeeping? |
| <input type="checkbox"/> | <input type="checkbox"/> | Is Management of Change required? (i.e. update valve charts, protective device drawings, local procedures, etc) |
| <input type="checkbox"/> | <input type="checkbox"/> | Verify alarm systems are functioning properly (e.g. high sump alarms, high tank alarms, etc.). |
| <input type="checkbox"/> | <input type="checkbox"/> | Verify Drain and Bleeder valves are in the closed positions. |
| <input type="checkbox"/> | <input type="checkbox"/> | Refill lines/equipment with liquid. |

PERMIT CLOSURE

BRIEFING: (Post job review)

PERMIT CANCELLATION (Not required if Permit is closed due to job completion)*

☐ Permit Cancelled Signature: _____ Date and Time: _____

Reason For Cancellation: _____

This section is used if conditions change, and permit is cancelled before job completion.

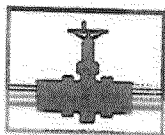
JOB COMPLETION

☐ Job Completed • Permit Returned to Plains Representative

SIGNATURE (Plains Representative): _____

Date: _____

Complete: ☐ Before the Job ☐ At the Job ☐ During the Job ☐ At Job Completion ☐ After the Job



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PIPELINE, L.P.

PIPELINE EXCAVATION/DITCHING AND BACKFILL PROCEDURE

DOC NO: PAALP-ENG-SPC-PRW-042

REV NO: 2

SHEET NO: 1 of 10

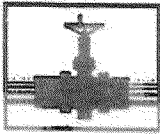
REVIEWED BY: Justin Dixon

APPROVED BY: John Haldiman

APP DATE 17-DEC-2014

TABLE OF CONTENTS

1.0	PURPOSE.....	2
2.0	SAFETY	2
3.0	DEFINITIONS	2
4.0	PRE-EXCAVATION	4
5.0	SAFETY CONSIDERATIONS	4
6.0	DITCHING/EXCAVATION	5
7.0	SUPPORT OF PIPE.....	7
8.0	INSPECTION	7
9.0	BACKFILLING	7
10.0	DOCUMENTATION	8



PLAINS
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PIPELINE, L.P.

PIPELINE EXCAVATION/DITCHING AND BACKFILL PROCEDURE

DOC NO: PAALP-ENG-SPC-PRW-042

REV NO: 2

SHEET NO: 2 of 10

REVIEWED BY: Justin Dixon

APPROVED BY: John Haldiman

APP DATE 17-DEC-2014

1.0 PURPOSE

This Ditching/Excavation and Backfilling Procedure is for use by PAALP and their contractors to provide long and short-term safety for the excavators, company personnel, and the public. This will be done by providing proven procedures designed to meet applicable regulations and ensure the pipeline is left properly inspected, coated, supported, backfilled and documented. This procedure is not intended to "stand alone." Other documents and Plains safety procedures are referenced for greater detail and instructions.

This Procedure is intended for new construction as well as bellhole type excavations, such as may be found in pipeline inspection, repair or short replacements done as a maintenance function. The Contractor shall be required to keep the ditch in compliance with the line established by the Company regardless of the depth of excavation necessary... All prevailing industry standards such as DOT, OSHA and others shall be followed

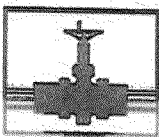
2.0 SAFETY

There are three (3) primary hazards that may be associated with excavating a pipeline. 1) Improper excavation practices resulting in a hazardous cave-in environment for personnel on site, both in and out of the excavation, 2) damage to exposed pipe by striking, gouging, denting or cutting or simply undermining its support, 3) the presence of large mobile excavation equipment with movable booms in the presence of immovable objects such as the pipeline and embankments, provide many hazards. Persons involved in excavations may encounter each of these hazards on each excavation and therefore must be capable and prepared to handle them safely.

3.0 DEFINITIONS

The following terms are defined as shown. These definitions are to be applied in the application of this procedure without regard for other potential definitions that may exist elsewhere.

1. **501 FORM** - Form 501 is a PAALP report which must be completed on site for all excavations involving the exposure of a PAALP's pipelines. The report contains critical information regarding the excavation, conditions of the pipeline, repairs and coating applied. The report is also required for compliance with PAALP standards and PHMSA regulations.
2. **ALIGNMENT SHEETS** - Maps or drawings of pipelines or a showing pipeline in plan view and its relationship to surface and other known buried features. The pipeline is typically presented with all bends and directional changes in relation to North, hence the name "alignment." It may contain much more related information such as, elevations, pipe data, coating information, landowners, topographic features, test and operating pressures, repairs, welds, etc.
3. **BENCHING** - Preparing the sides of the excavation such that they are "stair-stepped" when viewed in profile. Some soils or soil conditions cannot be benched due to their lack of cohesiveness or water saturation.



PLAINS
ALL AMERICAN
PIPELINE, L.P.

PIPELINE EXCAVATION/DITCHING AND BACKFILL PROCEDURE

DOC NO: PAALP-ENG-SPC-PRW-042

REV NO: 2

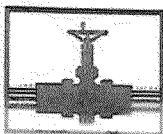
SHEET NO: 3 of 10

REVIEWED BY: Justin Dixon

APPROVED BY: John Haldiman

APP DATE 17-DEC-2014

4. **COMPETENT PERSON** - Refers to the person qualified and designated as the competent person for compliance with OSHA 1910 regulations. This person must be qualified by training to determine the soil types and associated requirements for proper excavation techniques. This person must pronounce the excavation "safe for entry" each day and anytime the site conditions may have changed. The competent person may be an employee of the company or contractor.
5. **HYDRO-VAC** - A special excavating process utilizing truck mounted water and vacuum equipment to remove the fill over and around pipe and other buried objects. The process is incapable of causing significant damage to a steel pipeline. The use of such equipment may be limited by availability or its use may be impractical due to site location. This process is primarily used in areas congested with underground utilities or pipelines.
6. **QUALIFIED** - A qualified individual is one that by training, experience or both is capable of performing a task and has passed a qualifying examination and verification.
7. **SHORING** - The reinforcement of the sides of an excavation is called shoring. Shoring uses wood, steel, or aluminum to prevent the side embankments from caving in on the excavated object and workers. The purpose is to provide a safe environment for workers and may be required due to instability of the embankments or where space requirements do not allow for proper sloping.
8. **SLOPING** - Digging the sides of an excavation at an angle (as measured from the horizontal plane) to prevent "cave-ins" is called sloping. The angle required for safety is dependent on the soil type and site conditions. "Benching" is a form of sloping.
9. **SPOIL** - The dirt or soil removed from an excavation is referred to as "spoil." Spoil includes all material, such as, rocks, dirt, vegetative matter or other material removed from the excavation. It may be granular, clumps or a combination of those, depending on soil type and moisture content.
10. **TOLERANCE ZONE** - The tolerance zone is defined as 24 inches from the outer edge of the pipe in all directions, or as defined by stage regulations, whichever is greater. Mechanized equipment is NOT allowed within the tolerance zone and excavation taking place within this zone must be done by hand.



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PIPELINE, L.P.

PIPELINE EXCAVATION/DITCHING AND BACKFILL PROCEDURE

DOC NO: PAALP-ENG-SPC-PRW-042

REV NO: 2

SHEET NO: 4 of 10

REVIEWED BY: Justin Dixon

APPROVED BY: John Haldiman

APP DATE 17-DEC-2014

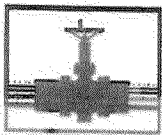
4.0 PRE-EXCAVATION

These items should be done prior to the beginning of the job.

1. Obtain alignment sheets and/or other maps or drawings to adequately locate excavation location.
2. Verify that the "one-call" (811) has been made and that utilities are marked and depth verified, where feasible, before the commencement of digging activities.
3. Verify the installation of high visibility markings of all underground crossings and structures.
4. Conduct a walk around inspection of equipment *checking all fluids* and noting any items needing maintenance and repair. Ensure all critical repairs are performed before operation.
5. Ensure all site personnel are equipped with appropriate personal protective equipment (PPE) as required by the task being performed and as required by OSHA regulations.
6. Ensure personnel are available to act as a "spotter" if there are overhead power lines, underground utilities or tight working conditions in the work area.
7. Verify an OSHA Competent Person is on site.
8. Have a site-considered plan for public safety while excavation is open and/or equipment is working. (Does not have to be written, but must formulated to deal with site specific conditions and should be addressed in pre-job tailgate meeting.)

5.0 SAFETY CONSIDERATIONS

1. Follow the policies and procedures of the governing agency when crossing foreign utilities.
2. Ensure a spotter is used if there are overhead power lines, underground utilities, or tight working conditions in the work area.
3. Maintain a minimum 2-foot lateral open area from edge of the excavation for all material, equipment, and spoil.
4. Assure that proper sloping, benching, or shoring techniques are utilized in excavations of five feet or greater in depth.
5. Check for and remove any accumulation of water in the excavation.
6. If the excavation is 4 feet or greater in depth, ensure means of proper egress within a maximum lateral travel distance of 25 feet.
7. Ensure adequate ground cover of other utilities and crossings.
8. Protective systems for excavations of 20 feet or greater in depth must be designed by a registered professional engineer.
9. Ensure that the competent person inspects and documents the excavation checklist at the beginning of each day, each shift change, and after every change of weather (rain storm).
10. Ensure adequate clearance between the Company pipe and other lines or utilities, particularly if those lines or utilities are made of steel or encased in steel.
11. Ensure the following Best Practices are being followed if the excavation is occupied:



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PIPELINE, L.P.

PIPELINE EXCAVATION/DITCHING AND BACKFILL PROCEDURE

DOC NO: PAALP-ENG-SPC-PRW-042

REV NO: 2

SHEET NO: 5 of 10

REVIEWED BY: Justin Dixon

APPROVED BY: John Haldiman

APP DATE 17-DEC-2014

- a. No contractor or company employee shall enter any excavation until it has been determined by the competent person that the excavation has been dug in accordance with OSHA, State, and Local Standards and deemed safe for entry.
 - b. Personnel who work in and around excavations and trenches have been made aware of the hazards and correct work procedures associated with this type of work.
12. Survey the excavation site for adequate markings of underground facilities marked as a result of the One-Call.
 13. Look for evidence of other underground facilities that may not have been marked, for example, private water, power and gas lines, cathodic protection ground beds, bond wires, communications cables, lateral lines connected to the pipeline being excavated, etc.
 14. Look for surface objects that may become unstable due to the excavation activity. Examples may be power poles or towers, boulders, trees, fences, buildings or other structures, etc.
 15. Develop a plan for securing any such objects that may be impacted by the excavation.

6.0 DITCHING/EXCAVATION

The following steps represent a typical excavation, however, it is understood that each excavation is unique and deviations may be necessary from time to time. Information or items underlined are intended to be mandatory and shall be observed as such.

1. Company Representative shall be present during all excavation activities.
2. Determine the best position for the excavation equipment and locate it accordingly. (Excavator should be located to allow digging parallel to the pipeline being excavated.)
3. Determine the depth of the targeted pipe and share the information with the Excavator operator.
4. Probe the pipeline near the excavator and mark one side of the pipe by leaving the probe in place.
5. Using a second probe locate the pipeline at the approximate far end of the excavation leaving the second probe in place on the same side of the pipe as the first probe. (If the far end is beyond the reach of the excavation equipment, mark with the second probe at the approximate end of the reach of the equipment's bucket.)

NOTE! AS AN ALTERNATE TO PROBING IN STEPS 4 AND 5, THE PIPELINE OR UTILITY MAY BE EXPOSED USING HYDROVAC OR HAND DIGGING.

6. Use the excavator bucket to remove soil parallel to the pipeline leaving the mandatory tolerance zone buffer (24in or defined by state regulations, whichever is greater) between the probed, or exposed, edge of the pipe and the bucket. The trench shall be sloped or benched appropriately as the work progresses.
7. Remove soil from the top of the pipeline using the excavator, being careful to leave the tolerance zone buffer of soil directly over the pipe undisturbed. (This should be confirmed by probing periodically.)



PLAINS
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PIPELINE EXCAVATION/DITCHING AND BACKFILL PROCEDURE

DOC NO: PAALP-ENG-SPC-PRW-042

REV NO: 2

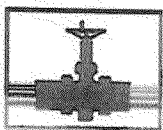
SHEET NO: 6 of 10

REVIEWED BY: Justin Dixon

APPROVED BY: John Haldiman

APP DATE 17-DEC-2014

8. Once a trench is dug on one side of the pipeline to or below the depth of the pipeline and the top cover has been removed to the tolerance zone buffer, workers with shovels should be dispatched to remove the soil from the top of the pipe by shoveling it into the trench. (Workers shall exercise care to ensure the coating remains undisturbed and the pipe is not hit.)
9. Repeat steps 6, 7, and 8 on the other side of the pipe.
10. Workers with shovels shall then enter the trench to remove soil beneath the pipe as needed. This is done by "caving" the soil to one or both sides of the pipe for removal by the excavator. (No more soil should be removed beneath the pipe than is necessary for the work to be done.) When excavating/ditching parallel to an existing pipeline, care should be taken to leave sufficient distance and support to ensure said line does not slough off into new excavation. If parallel line is a coupled pipeline, Contractor shall obtain a safe excavation procedure from the owner/operator of the coupled pipeline. In all instances, the work should be planned such that the excavation is open a minimum amount of time. A Confined Space Entry Permit is required in any ditch that can be classified as a confined space as per 29 CFR 1910.146 and must be shored for personnel access as well. Type of shoring is up to the discretion of Contractor and Company Representative. Loose soils may require prefabricated engineered containment box. For firm soils, step excavation may be considered.
11. Unless otherwise stated on Company supplied drawings or in site specific right-of-way agreements the ditch bottom shall be a minimum of 12-inches wider than the pipe being installed for nominal pipe diameters less than 12-inches, and a minimum of 18-inches wider for nominal pipe diameters 12-inches and greater. The bottom of the completed ditch shall be free of debris or any foreign materials which might damage the pipe or coating. The ditch shall provide a minimum cover of 48-inches between the top of the pipe and the original or final surface of the ground whichever is lower, unless otherwise stated on Company supplied drawings or in site specific right-of-way agreements.
12. Contractor may, under certain Special Right-of-Way conditions, be required to remove separately and conserve the topsoil (Double Ditch). Topsoil shall be removed to the depth specified in the scope of work. Topsoil stripping will include the ditch line and backfill area. After the trench has been backfilled, Contractor shall replace the topsoil to the satisfaction of the Company Representative.
13. The bottom of the ditch shall be cut to a uniform grade so that the full width of the ditch shall be available for providing slack in the line when installed.
14. Drain lines across the working side shall be cleaned out to ensure the tile has not been crushed or damaged by construction equipment. The Contractor shall construct the pipeline at such depth at the point of under crossing all drain tiles that no interference shall occur between the repaired section of tile and the pipeline. If drainage tile is damaged during the trenching operations, the locations shall be immediately flagged for repair. The flags shall not be removed until permanent repairs have been inspected and accepted by both the Company Representative and the landowner. Unless otherwise authorized in the line lists or by the Company Representative, temporary repairs shall be made and temporary supports installed to maintain serviceability of the drain tiles until the permanent repairs can be made and the tiles properly supported by compacted backfill. Repairs shall be made by cutting tiles back



PLAINS
ALL AMERICAN
PIPELINE, L.P.

PIPELINE EXCAVATION/DITCHING AND BACKFILL PROCEDURE

DOC NO: PAALP-ENG-SPC-PRW-042

REV NO: 2

SHEET NO: 7 of 10

REVIEWED BY: Justin Dixon

APPROVED BY: John Haldiman

APP DATE 17-DEC-2014

into undamaged sections and replacing damaged sections with tile of equal size and quality, using care to maintain previous gradient.

7.0 SUPPORT OF PIPE

Excavated pipe must be supported to provide a safe working environment and for the long term integrity of the pipeline. Improperly supported pipe can place tremendous stresses on welds and other joints causing premature and, perhaps, catastrophic failure.

Pipe supports may be the natural earthen "plugs" under the pipe after excavation of the surrounding soil, or a prepared support such as sand bags, etc. (Pipeline "skids" or timbers may be used while the excavation is opened, but must be removed and replaced with a suitable material, such as sandbags, before backfilling.) Pipe shall be supported in compliance with Figures A and B

When heavy reinforcements, such as high pressure Plidco, et al, repair clamps, thick and long repair sleeves, full encirclement tees or hot tap fittings, valves or other heavy devices are installed they must be supported properly. Heavy, but short, devices, such as valves, should be supported directly under the device. Repair sleeves over six (6) feet long and permanent repair clamps or similar devices should be supported at both ends approximately one foot (12") from each end of the device.

Foreign or other pipes, pipelines, cables, and utilities that are exposed when excavating the target asset must be properly supported to preserve their immediate and long term integrity. Small diameter lines (<4") or cables must be supported during and after excavation. It may be necessary to use support structure acting as a bridge across the excavation and suspend the pipe or cable from that support member. The support member can be practically any rigid member of adequate length and strength to support the weight of the exposed utility. The utility shall be supported as necessary depending on the material and construction of the utility. For example, a flexible cable may require more frequent support than a rigid pipe.

8.0 INSPECTION

Once work that required the excavation has been completed, the exposed pipe and coating shall be inspected for the following:

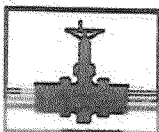
1. New or Pre-existing nicks, scratches, scars, corrosion pitting, visible crack-like indications,
2. Coating holidays, voids, disbondment, cracks, tears, wrinkles or other abnormalities
3. Proper support, including proper material between pipe and any artificial supports

All items revealed by the inspection shall be documented and repaired or otherwise determined to not be injurious to the integrity of the pipeline.

9.0 BACKFILLING

The excavation may be backfilled upon the completion of the work which includes all post-work inspections and the proper curing of all coating material used in the work. Care shall be taken to ensure no damage occurs during the backfill process.

1. Company representative shall be present during the entire backfill process.
2. Segregate material that may damage the pipe or coating from the backfill material. This includes rocks over 2 inches in diameter, large roots, metallic objects, trash, pieces of skids or other large pieces of wood and frozen soil. The larger rocks (up to 6") may be placed back into the backfill well away from the pipe. Dispose of the trash appropriately. Crush or



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ALL AMERICAN
PIPELINE, L.P.

PIPELINE EXCAVATION/DITCHING AND BACKFILL PROCEDURE

DOC NO: PAALP-ENG-SPC-PRW-042

REV NO: 2

SHEET NO: 8 of 10

REVIEWED BY: Justin Dixon

APPROVED BY: John Haldiman

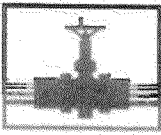
APP DATE 17-DEC-2014

pulverize large clumps or clods of dirt into finer material. (If removed rock makes up a significant amount of the backfill, replace their volume with clean soil or sand.)

3. Push or dump soil into the edge of the excavation allowing the fines to "flow" under the exposed pipe. Do not dump fill material containing allowable rock directly on the pipe as it can damage coating. (On small diameter pipe, 8" or less, do not dump any backfill directly on top of the pipe. This can cause the pipe to bounce possibly leading to cracked welds.)
4. All rock used in the backfill should be placed no closer than twelve inches (12") to the pipe and preferably to the side rather than above or directly below the pipe.
5. When possible, compact the soil after placing in the excavation. Extreme care must be taken to avoid hitting the pipe.
6. Place any frozen soil near the top of the excavation but do not compact.
7. Finish the backfill by placing topsoil over the excavation.

10.0 DOCUMENTATION

PAALP's Form 501 shall be completed upon the completion of the backfill. To avoid errors of memory lapses, the portions of the form capturing data generated at the site shall be completed on-site at the time of the excavation.



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PIPELINE EXCAVATION/DITCHING AND BACKFILL PROCEDURE

DOC NO: PAALP-ENG-SPC-PRW-042

REV NO: 2

SHEET NO: 9 of 10

REVIEWED BY: Justin Dixon

APPROVED BY: John Haldiman

APP DATE 17-DEC-2014

Plains All American, L.P.

Pipeline Integrity Group

FIGURE A

The D/t ratio is calculated by dividing the outside diameter of the pipe by the nominal wall thickness.
This chart may be used for common sizes and wall thickness pipe

D / t Ratio of Common Pipe Diameters and Wall Thickness

		W A L L T H I C K N E S S																
		0.280																
		0.156	0.188	0.219	0.237	0.260	0.281	0.312	0.322	0.344	0.365	0.375	0.438	0.500	0.625	0.750		
D	4.5	28.8	23.9	20.5	19.0	18.0												
	6.625	42.3	35.2	30.3		26.5	23.6	21.2	20.6	19.3	18.2	17.7	16.1	13.3				
I	8.625	55.3	45.9	39.4		34.5	30.7	27.6	26.8		23.6	23.0	19.7	17.3				
	10.75	68.0	57.2	49.1		43.0	38.3	34.5	33.4		29.5	28.7	24.5	21.5				
A	12.75		67.8	58.2		51.0	45.4	40.9	39.6	37.1	34.9	34.0	29.1	25.5				
	14			63.9		56.0	49.8	44.6	43.5	40.7	38.4	37.3	32.0	28.0	22.4	18.7		
W	16			73.1		64.0	56.9	51.3	49.7	46.5	43.8	42.7	36.5	32.0	25.9	21.3		
	18					72.0	64.1	57.7	55.9	52.3	49.3	48.0	41.1	36.0	28.8	24.0		
E	20					80.0	71.2	64.1	62.1	58.1	54.8	53.3	45.7	40.0	32.0	26.7		
	22					88.0	78.3	70.5	68.3	64.0	60.3	58.7	50.3	44.0	35.2	28.3		
T	24					96.0	85.4	76.9	74.5	69.8	65.8	64.0	54.8	48.0	38.4	32.0		
	26					104.0	92.5	83.1	80.7	75.6	71.2	69.3	59.4	52.0	41.6	34.7		
E	28					112.0	99.6	89.7	87.0	81.4	76.7	74.7	63.9	56.0	44.8	37.3		
	30					120.0	106.8	96.2	93.2	87.2	82.2	80.0	68.5	60.0	48.0	40.0		
R	36					144.0	128.1	115.4	111.8	104.7	98.6	96.0	82.2	72.0	57.6	46.0		

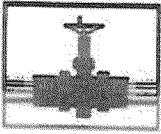
0.375 Standard Wall Thickness

For D/t ratios above and to the right of the heavy line, support exposed line using "Normal" spacing scheme
For D/t ratios below and to the left of the heavy line, support exposed line using "Close" Spacing scheme

Revision 2, 9.6.07

PIPELINE AND REPAIR MANUAL

Pipeline Support



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PIPELINE EXCAVATION/DITCHING AND BACKFILL PROCEDURE

DOC NO: PAALP-ENG-SPC-PRW-042

REV NO: 2

SHEET NO: 10 of 10

REVIEWED BY: Justin Dixon

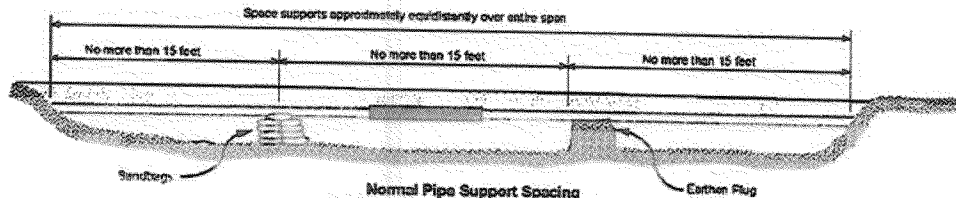
APPROVED BY: John Haldiman

APP DATE 17-DEC-2014

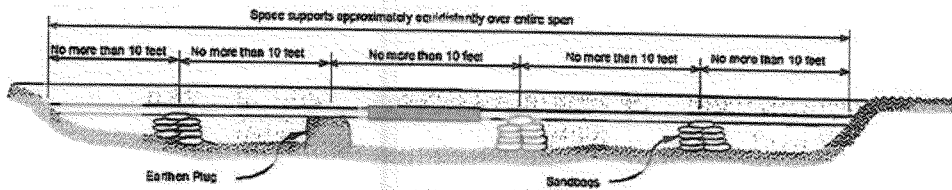
Plains All American, L.P.

Pipeline Integrity Group

SUPPORT SCHEMES, FIGURE B



Normal Pipe Support Spacing
For Pipe with a D/t ratio less than 50 to 1
(Avoid placing supports within 5 feet of girth welds)
See FIGURE A to determine D/t ratio.



Close Pipe Support Spacing
For Pipe with a D/t ratio greater than 50 to 1
(Avoid placing supports within 3 feet of girth welds)
See FIGURE A to determine D/t ratio.

Revision 2, 9.6.07

PIPELINE REPAIR MANUAL

Pipe Support

1. Incident Name Refugio Incident		2. Operational Period (Date/Time) From 05/24/2015 06:00 To 05/25/2015 05:59		Operational Period Ops Period 4	Assignment List ICS 204-CG
3. Branch Recovery Branch		4. Division/Group/Staging Excavation Group			
Task Force/Strike Team		Team			

5. Operational Personnel	Name	Affiliation	Contact#(s)
Operations Section Chief	Chris Gregory	Witt O'Brien's and USCG	
Branch Director	Maggie Walden	EPA	
Division/Group Supervisor/STAM			

6. Resources Assigned					
'X' indicates 204a attachment with additional instructions					
Qty x Size (Unit)	Strike Team/Task Force/Resource Identifier	Leader	Contact#	# Of Persons	Notes
14 (each)	Excavation and Verification Team	Mike Buttram	805-310-2141	0	Justin Hearer team leader after 1900 hrs 661-301-6227

7. Work Assignments					
1. Verify locally and with control center that the following L901 valves have been previously closed and "locked out and tagged out" <ul style="list-style-type: none"> Las Flores Mov-0109C Station 417+17 Mov-01V01 Gaviota Mov-0208C 					

Mechanical contractors to install locks on each of these closed valves before exposing the line. Verify that line rectifiers are off.

2. Excavate line at station 377+10 to install hot tap
3. Prepare pipe for clamp on Tap Machine
4. Install Tap Machine and tap pipe
5. Communicate to personnel near station 355+80 that the tap is installed
6. Only after notifying the downstream crew at 355+80 that the tap is installed
7. Monitor downstream activity. If flow is detected near the downstream site, use the vacuum truck near 355+80 to collect volume until the line is empty between stations.
8. Line is ready for excavations and follow on cut out after subsequent procedure approval.

- | | |
|--------------------------------|---|
| 8. Special Instructions | |
| 1. | Safety Officers and air monitoring shall be present during operations |
| 2. | Prior to excavations archeologist shall be consulted and if there are any cultural or historic resource concerns, archeologist shall be present to monitor the operations |
| 3. | A minimum of 25 feet from the potential release locations shall be maintained |
| 4. | All recovered oil shall be quantified and disposed of in accordance with the waste management plan. |

9. Communications (radio and/or phone contact numbers needed for this assignment)			
Name/Function	Radio Freq./System/Channel	Phone	Cell/Pager

Emergency Communications		
Medical:	Evacuation:	Other:

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10. Prepared By Steve Browne	Date/Time 05/23/2015 19:46	11. Reviewed By (PSC) D. Sobieski	Date / Time 5/23/15	12. Reviewed By (OSC) Chris Gregory	Date / Time
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ASSIGNMENT LIST	05/23/2015 20:14	ICS 204-CG (Rev.10/07)
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1. Branch		2. Division/Group		ASSIGNMENT LIST					
Recovery Branch		Near Shore Group							
3. Incident Name:			4. Operational Period:			Start	Finish		
Refugio Incident			Date			5/24/2015	5/15/2015		
			Time			0600	0539		
5. Operations Personnel									
Operations Section Chief: Chris Gregory									
Branch Director: John Victoria									
Division/Group/Supervisor: Patriot									
6. Resources Assigned This Period									
Resource Designator		Leader	Phone #	Number of Persons	Trans. Needed	Drop Off Point/Time	Pick Up Point/Time		
1 Tug									
1 Barge									
Near Shore Clean-Up									
Support Resources									
Personnel as necessary									
7. Assignments									
Conduct shoreline clean-up activities as directed IAW approved clean-up procedures.									
8. Special Instructions/Safety Message									
9. Division/Group/Communications Summary									
Function		Freq.	System	Chan.	Function		Freq.	System	Chan.
Command		Local			Support		Local		
		Repeat					Repeat		
Div./Group/Unit Tactical					Ground-To-Air				
10. Prepared By (Resource Unit Leader)				11. Approved By (Planning Section Chief)			Date		Time
				D.M. Sch...			5/23		1950
ICS-204 (oil) 7/94									

100 of 8

1. Incident Name Refugio Incident	2. Operational Period (Date/Time) From 05/24/2015 06:00 To 05/25/2015 05:59	Operational Period Ops Period 4	INCIDENT RADIO COMMUNICATIONS PLAN ICS 205-CG
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3. BASIC RADIO CHANNEL USE

SYSTEM / CACHE	CHANNEL	FUNCTION	FREQUENCY	ASSIGNMENT	REMARKS
Offshore Group	VHF 10	Vsl to Vsl			Clean Seas
Onshore Group			Cell phones		Pete Esparza, Supervisor 562 244-1190
Air Ops	Marine VHF 10 & 16	Air to Ground/Surface to Air	123.02		
C.G. Surface vessels	VHF 16	Hailing	VHF 113 (working)		
Commercial Helo	VHF 10				Clean Seas contract helo

4. Prepared by (Communications Unit) sbrowne	Date / Time 05/23/2015 12:03	Page 1 of 1
INCIDENT RADIO COMMUNICATIONS PLAN		
Generated by Will O'Brien's		ICS 205-CG (Rev. 07/04)

61 of 87

1. Incident Name Refugio Incident		2. Operational Period (Date/Time) From 05/24/2015 08:00 To 05/25/2015 07:59		Operational Period Ops Period 4	Medical Plan ICS 206-CG	
3. Medical Aid Stations						
Name	Location	Contact#	Paramedics On-Site(Y/N):			
Refugio Source	193 Refugio Road Goleta, CA 93117	562-244-2764	e			
4. Transportation						
Ambulance Service	Address	Contact#	Paramedics On-Site(Y/N):			
American Medical Response	240 E. Hwy 246 Buellton, CA 93427	805-688-6550	e			
CALSTAR 7 (Helo without Hoist capability)	3996 Mitchell Rd. Santa Monica, CA 93455	805-938-9038	b			
Santa Barbara County Air Support Unit (Hoist capability)	906 Airport Rd. Santa Ynez CA 93460	805-692-5723	b			
Santa Barbara County Fire Rescue 217	4408 Cathedral Oaks Rd. Santa Barbara	805-692-5723	b			
5. Hospital						
Hospital Name	Address	Contact#	Travel Time Air(hrs)	Travel Time Ground(hrs)	Burn Ctr?	Helipad?
Goleta Valley Cottage Hospital	351 S. Patterson Ave. Santa Barbara, CA 93111	805-967-3411	0.20	0.50	e	b
Grossman Burn Center	7300 Medical Center Drive, West Hills CA	818-676-4177	0.40	1.20	b	b
Santa Barbara Cottage Hospital	400 W. Pueblo St. Santa Barbara, CA 93105	805-682-7111	0.20	0.50	e	b
6. Special Medical Emergency Procedure						
On duty ambulance supervisor 805-245-3424.						
1. Division Supervisors shall ensure any injury or illness is identified through consistent communications with working crews.						
2. Division Supervisors shall make immediate notification to EMS units listed above and administer first aid until EMS can render aid.						
3. Following immediate treatment of the patient, Division Supervisors shall immediately notify the incident Safety Officer Randy Fordham at 661-332-9164. Division Supervisor shall also complete ICS-237 Mishap report form and route forward via chain of command to the Situation Unit Leader located at Command Post.						
7. Prepared By (Medical Unit Leader)						
Rick Taylor						Date/Time 05/20/2015 14:47
8. Reviewed By (Safety Officer)						
R. Fordham						Date/Time 05/20/2015 14:47
Medical Plan			05/23/2015 17:34		ICS 206-CG	

1. Incident Name	2. Operational Period (Date/Time)	Operational Period	DAILY MEETING
Refugio Incident	From 05/24/2015 06:00 To 05/25/2015 05:59	Ops Period 4	SCHEDULE ICS 230-CG

3. Meeting Schedule(Commonly-held meetings are included)

Date/Time	Meeting Name	Purpose	Attendees	Location
05/24/2015 06:30	Operations Briefing	Present IAP and assignments to the Supervisors/Leaders for the next Operational Period	IC/UC, Command & General Staff, Branch Directors, DOV/GRP Supv, Task Force/Strike Team Leaders and Unit Leaders	Refugio State Beach
05/24/2015 07:45	Unified Command Objectives Meeting	Review identify objectives for the next operational period	Unified Command Members	Conference Room #115, SBC EOC
05/24/2015 08:30	Command and General Staff Meeting	IC/UC gives direction to Command & General Staff including incident objectives and priorities	IC/UC, Command General Staff	Conference Room #115, SBC EOC
05/24/2015 09:30	Prep for local media tour		UC and PIO	Conference room
05/24/2015 10:00	Local Media Tour		UC and PIO	Command Post
05/24/2015 13:00	Preparing for the Tactics Meeting	Prepare for the upcoming tactics meeting. Review the ICS 234, ICS 215 and ICS 215a as appropriate	PSC, OSC, LSC, FSC	SBC EOC
05/24/2015 14:00	Press Conference	Brief media and other stakeholders on the response status	IC/UC, PIO	Outside SBC EOC
05/24/2015 14:00	Tactics Meeting	Develop/Review primary and alternate strategies to meet Incident Objectives for the next operational period.	PSC, OSC, LSC, FSC, RUL, SUL, SOFR, DOCL, COML and THSP	
05/24/2015 14:30	Preparing for the Planning Meeting	The Planning Section Chief facilitates the preparation of documents for the Planning meeting.	Command and General Staff	SBC EOC
05/24/2015 17:00	Planning Meeting	Review status and finalize strategies and assignments to meet Incident Objectives for the next Operational Period.	IC/UC, Command & General Staff	Conference Room #115, SBC EOC
05/24/2015 21:00	IAP Approval	Present the IAP to the Unified Command for approval.	IC/UC, PSC	Conference Room #115, SBC EOC

4. Prepared by (Situation Unit Leader)

Steve Browne

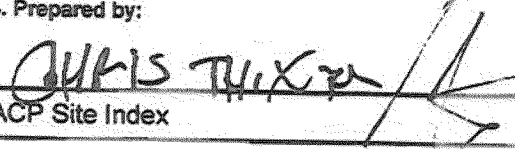
Date / Time

05/23/2015 12:03

DAILY MEETING SCHEDULE

05/23/2015 18:48

ICS 230-CG (Rev 07/08)

1. Incident Name Refugio Incident		2. Operational Period (Date/Time) From: 5/23/15 0600 To: 5/24/15 0600		ACP Site Index ICS 232a-OS
3. Index to ACP/GRP sites shown on Situation Map				
Site #	Priority	Site Name and/or Physical Location	Action	Status
4-601	A	Gaviota Creek	400 ft of primary and secondary boom Set stakes to anchor boom	Completed 5/19 1600
4-605	C	Canada Del Alcatraz & Cementario Creeks	Pre-impact debris removal	Completed 5/22 1500
4-607	A	Arroyo Hondo Preserve and Creek	100 ft of swamp boom 100 ft of sorbent boom Secured with stakes	Completed 5/21
4-610	A	Refugio Creek (spill site, boomed)	400 ft of hard boom 400 ft of absorbant boom Staked per site strategy	boomed
4-613	A	Corral- Las Flores Creeks	Pre-impact debris removal	Completed 5/20
4-615	A	El Capitan Creek	40 ft of swamp boom 40 ft of sorbent boom Secured with stakes	Completed by clean seas 5/20
4-620	A	Las Llagas	200 ft of absorbant boom 200 ft of hard boom Staked per site strategy	Completed 5/20 b/n 1700-1900 hrs
4-625	B	Naples	Pre-impact debris removal	Completed 5/21 1600
4-630	A	Eagle Canyon Creek	Pre-impact debris removal 100 ft absorbant boom 100 ft of hard boom	Completed 5/22 1620
4-635	A	Tecolote Creek	400 ft of hard boom 400 ft of absorbant boom Staked per site strategy	Completed 5/20 b/n 2000-2130 hrs High natural berm confirmed
4-640	A	Bell Canyon Creek	400 ft of hard boom 400 ft of absorbant boom Staked per site strategy Additional boom was needed	Completed 5/20 b/n 2000-2130 hrs High natural berm confirmed
4-645	A	Devereaux Slough	See Status	Decision was made not to deploy boom due to plovers High natural berm confirmed
		Tajiguas Creek	200 ft of hard boom 200 ft of absorbant boom	Completed 5/22 0842
4. Prepared by:  Date/Time: 5/22/2015				
ACP Site Index		June 2000	ICS 232a-OS	

1. Incident Name Refugio Incident	2. Operational Period (Date/Time) From 5/23/15 0600 - 5/24/15 0000	RESOURCES AT RISK SUMMARY Division SB-1 ICS 232-OS
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3. Environmentally-Sensitive Areas and Wildlife Issues

Site #	Priority	Site Name and/or Physical Location	Site Issues
4-601	A	Gaviota Creek	<ul style="list-style-type: none"> ▪ Whenever the creek mouth is open (much of the year, depending on rainfall) wetland biota, including Steelhead trout, Tidewater goby, red-legged frog, arroyo chub, southwestern pond turtle, two-striped garter snake, coast range newt, waterfowl, and saltwater and freshwater marsh habitats are at risk. ▪ Rest of the year for seabirds, shorebirds and waterfowl, harbor seals, and Calif sea lions, also eel grass beds in nearshore area. Steelhead movement occurs in this area Dec thru March. Tidewater gobies nest April thru June. Southwestern pond turtles, newts and red-legged frogs overwinter on or near the banks and upland areas along the creek. ▪ Amphibian eggs and tadpoles occur (Dec - Sep) and could be injured by response. Brown pelicans, Gulls, Terns and other seabirds and waterfowl. Harbor seals and Calif sea lions. ▪ Sea otters have been known to move through the nearshore area. Steelhead trout (Dec-May), Rockfish (all year), Calif baracuda, Top smelt (all-year), Yellowtail rockfish (all-year), Tidewater goby.
4-605	C	Canada Del Alcatraz & Cementerio Creeks	<ul style="list-style-type: none"> ▪ Cementerio Creek is a watering spot for monarch butterflies (hence the name of the off ramp from Hwy 101- Mariposa Reina). There are patchy riparian and wetland habitats on Alcatraz and Cementerio Creeks. ▪ Eucalyptus and live oak woodlands dominate the watershed along the Plains Exploration facility north of Hwy 101 Brown pelicans, Gulls, Terns and other seabirds and waterfowl. ▪ Sea otters have been known to move through the area.
4-607	A	Arroyo Hondo Preserve Creek	<ul style="list-style-type: none"> ▪ Tidewater Gobies (federally endangered species) are found in the estuary year round. Whenever the creek mouth is open, wetland biota are at risk from a marine spill. This creek supports red-legged frogs, southwestern pond turtles, and two-striped garter snakes. It also supports spawning migrations of coastal steelhead. There is evidence of deer, bear, and mountain lions in the upper portions of the watershed.
		Kashtayit SMCA	
		Tajiguas Creek	<ul style="list-style-type: none"> ▪ Tidewater Gobies, red-legged frog. Newly restored estuary.

Narrative

This ~ 9.1 mile stretch of coast is characterized by isolated narrow cobble and sand beaches and is backed by high wave washed coastal bluffs. The shoreline is obstructed along much of its length by exposed bedrock outcroppings, rocky promontories that extend well into intertidal areas (east of Gaviota State Park, vic. Cementerio and Alcatraz Creeks, and cliffs at west end of Refugio State Beach). The configuration and nature of shorelines in this area change depending upon ocean and weather conditions and sand loss and replenishment.

T&E Species Concerns:

Steelhead, Tidewater Goby, Red-legged Frog, Least Terns, Sea Otters.
 A. Water Contamination - Unhealthy levels of coliform bacteria have been found intermittently in streams and on beaches in the Santa Barbara County area. Check with the Santa Barbara Ocean Quality Hotline, 805-681-4949, regarding health conditions prior to engaging in any activities which would require direct water contact. Use appropriate PPE, safety procedures, and include reference to potential health problems in any site safety plan.

4. Archaeo-cultural and Socio-economic Issues

Site #	Priority	Site Name and/or Physical Location	Site Issues

Narrative

Cultural, Historical, and Archeological sites are known to exist in the area, however, the exact locations of these sites must be ascertained by contacting the Native American Heritage Commission at (916) 653-4082 and State Office of Historical Preservation (916) 653-6624, and/or the Central Coast Archeological Information Center (805) 893-2474.

105 of 87

5. Prepared by: (Environmental Unit Leader)		Date/Time
<i>Melissa Boyd</i>		5/22/215
RESOURCES AT RISK SUMMARY		ICS 232-OS
June 2000		Electronic version: NOAA 1.0 June 1, 2000

SPOT FORECAST FOR REFUGIO INCIDENT...USCG
NATIONAL WEATHER SERVICE LOS ANGELES/OXNARD CA
1251 PM PDT SAT MAY 23 2015

FORECAST IS BASED ON INCIDENT TIME OF 1145 PDT ON MAY 23.
IF CONDITIONS BECOME UNREPRESENTATIVE...CONTACT THE NATIONAL WEATHER
SERVICE.

.DISCUSSION...MODERATE ONSHORE PRESSURE GRADIENTS WILL
BRING GUSTY SOUTHWEST TO WEST WINDS TO THE REFUGIO COASTLINE THIS
AFTERNOON. THE FLOW WILL BECOME NORTHWEST DURING THE EVENING AND
REMAIN GUSTY...STRONGEST BELOW PASSES AND CANYONS AND SOMEWHAT
WEAKER THAN THE PREVIOUS EVENINGS. WINDS ARE EXPECTED TO BE
WEAKER THROUGH THE DAY SUNDAY. SKIES WILL BE PARTLY CLOUDY
THROUGH THIS EVENING BECOMING MOSTLY CLOUDY OVERNIGHT AS A LOW
PRESSURE SYSTEM PASSES OVERHEAD. THIS MAINLY DRY TROUGH MAY
PRODUCE PATCHY DRIZZLE IN THE HILLS ABOVE THE REFUGIO COAST...BUT
OTHERWISE NO PRECIPITATION IS EXPECTED. SKIES WILL BE PARTLY
CLOUDY SUNDAY AFTERNOON.

OUTLOOK FOR MONDAY THROUGH WEDNESDAY...NO SIGNIFICANT WEATHER IS
EXPECTED. WINDS IN THE SANTA BARBARA CHANNEL ARE EXPECTED TO BE
SOUTHWEST TO WEST 5 TO 15 MPH EACH AFTERNOON AND EVENING THROUGH
TUESDAY...INCREASING TO 10 TO 20 MPH BY WEDNESDAY AFTERNOON.

SMALL BUT LONG PERIOD SWELL FROM THE SOUTH MAY MAKE IT THROUGH
THE ISLANDS SUNDAY AFTERNOON AND CONTINUE THROUGH TUESDAY. BY
WEDNESDAY ANOTHER SMALL LONG PERIOD SWELL FROM THE SOUTH TO
SOUTHWEST WILL HAVE A BETTER CHANCE OF MOVING INTO THE CHANNEL.

.TONIGHT...

SKY/WEATHER.....PARTLY CLOUDY (35-45 PERCENT) THEN BECOMING
MOSTLY CLOUDY (65-75 PERCENT).
TEMPERATURE.....MIN 53.
RH.....MAX 85-90 PERCENT.
WIND (20 FT).....1800-2100: NORTH WINDS 12 TO 186 MPH WITH LOCAL
GUSTS TO 25 MPH. STRONGEST BELOW
PASSES AND CANYONS.
2100-0100: NORTHWEST WINDS 8 TO 12 MPH.
0100-0600: VARIABLE 3 TO 6 MPH.
SWELL HEIGHT.....WEST SWELL 1 TO 2 FEET.
SWELL PERIOD.....11 SECONDS.
WIND WAVE.....2 TO 3 FEET AT 6 SECONDS SUBSIDING TO 1 FOOT
OR LESS AFTER MIDNIGHT.
TIDE INFORMATION...LOW TIDE AT 852 PM PDT...HEIGHT 2.1 FT.
HIGH TIDE AT 217 AM PDT...HEIGHT 4.1 FT.

.SUNDAY...

SKY/WEATHER.....MOSTLY CLOUDY EARLY (70-80 PERCENT) BECOMING
PARTLY SUNNY (45-55 PERCENT).

TEMPERATURE.....MAX 65-68.

RH.....MIN 52-56 PERCENT.

WIND (20 FT).....0600-0900: VARIABLE 2 TO 4 MPH.

0900-1300: SOUTHWEST 3 TO 6 MPH.

1300-1800: SOUTHWEST 8 TO 12 MPH WITH GUSTS TO 15
MPH.

SWELL HEIGHT.....WEST SWELL 1 TO 3 FEET AT 9 SECONDS.

SWELL PERIOD.....9 SECONDS.

WIND WAVE.....1 FOOT OR LESS BECOMING 1 TO 2 FEET LATE IN
THE AFTERNOON.

1. Incident Name
Refugio Incident

2. Operational Period (Date/Time)
As of: 0523 1000 hrs

COMMUNICATIONS LIST
ICS 205A-CG

3 Basic Local Communications Information

Last Name	First Name	Organization	Phone
Abe	Kelly	Ca Fish & Wildlife	(916) 216-3964
Abrams	Ricard	COEM	(805) 896-6371
Addassi	Yvonne	OSPR	(916) 956-1162
Albrough	John	Coast Guard	(415) 596-3542
Alcantara	Eduardo	Coast Guard	(520) 223-2759
Amon	George	Coast Guard	(262) 995-8188
Anderson	Andrea	Coast Guard	(405) 833-3068
Anderson	Ryan	Plains	(281) 224-9891
Arndt	Elsa	SB OEM	(805) 681-5524
Backus	Dave	CTEH	(901) 496-6658
Baker	Phil	CTEH	(501) 804-8138
Barbier	Brian	Applied Earthworks	(530) 848-3253
Barnum	Gary	Coast Guard	(714) 742-4279
Barriga	Gonzalo	LA FD Inv	(213) 725-8862
Beene	Jamie	ISS	(903) 570-8958
Berg	Catherine	NOAA	(907) 529-9157
Bergeron	Jason	WOB	(281) 414-7742
Berman-Kowalewski	Michelle	NOAA	(805) 896-0858
Birg	Mike	CTEH	(501) 517-5712
Bishop	Jonathan	Ca Coastal Comm	(415) 693-8375
Bode	Denise	Plains	(405) 818-1775
Boelhouwer	Steve	Co SBICT	(805) 568-2656
Boes	Richard	Coast Guard	(202) 494-3557
Boggs	Melissa	Ca Fish & Wildlife	(805) 558-1005
Boisen	Kent	SBFD	(805) 755-3120
Bonham	Chuck	Ca Fish & Wildlife	
Bontty	Mona	COES	(562) 673-0411
Boyd	Shawn	Ca OES	(916) 201-7666
Boyes	Edward	WOB	(562) 760-6940
Braund	Trevor	Clean Seas	(954) 294-5597
Brazer	Mara	Brazer Comm	(415) 305-6677
Bronson	Collin	Coast Guard	(562) 879-1141
Brown	Steve	WOB	(516) 457-2571
Brzuska	Donald	Coast Guard	(510) 333-8297
Buchanan	James	Plains	(661) 437-1459
Byrd	Brian	Plains	(601) 467-5266
Cabral	Santos	Ca Fish & Wildlife	(949) 289-2928
Caesar	Jim	UCSB	(805) 450-1437
Cafasso	Sarah	US EPA	(978) 944-1946
Caillouet	Josh	CTEH	(985) 637-1220

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Refugio Incident

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COMMUNICATIONS LIST
ICS 205A-CG

Caliguire	Mike	Patriot Environmental	(510) 965-3691
Callister	Tim	Coast Guard	(253) 444-7851
Caraway	Katy	Coast Guard	(505) 400-6304
Castro	Guy	Plains	(562) 756-2647
Cazier	Josh	SBCFD	(805) 896-6333
Chastain	Dennis	Ca Fish & Wildlife	(562) 505-8988
Chickering	Robert	Adv BioCatalytics	(949) 887-9509
Christensen	Shellee	Coast Guard	(541) 999-0156
Clark	Heather	Coast Guard	(251) 680-7911
Cohen	Scott	Ca Fish & Wildlife	(805) 207-6312
Connell	Mike	Ca Fish & Wildlife	(805) 331-1867
Corbo	Christian	Ca Fish & Wildlife	(310) 864-5299
Costlow	Jeremy	ISS	(903) 714-6172
Council	Jim	Coast Guard	(954) 649-4192
Craddock	Spike	Patriot Environmental	(805) 680-2050
Creighton	Kent	Patriot Environmental	(562) 310-6969
Crider	Ryan	Plains	(504) 453-9724
Crochet	William	Plains	(281) 536-8172
Cullen	Thomas	OSPR	(510) 517-8314
Dabney	Rory	WOB	(503) 467-6224
Davis	Cory	CTEH	(501) 258-7881
Delgado	Ruben	Patriot Environmental	(562) 244-4408
Dellith	Chris	US Fish & Wildlife	(805) 644-1766
Diamond	Walter	OMI	(504) 236-0085
Dibenedetto	John	Dept Energy	(805) 681-2240
Dicken	Ian	SB ICT	(805) 315-5256
Donohue	Keith	Coast Guard	(415) 320-5345
Dorsey	Matt	NOAA	(315) 278-0922
Doss	Ryan	Coast Guard	(305) 542-8127
Doty	Ima	OSPR	(916) 215-3858
Downey	Charlene	Coast Guard	(310) 707-7381
Dunn	Chris	Stantec	(805) 813-0798
Ellerbe	Robin	Coast Guard	(510) 388-0507
Erlandson	Jon	Historical Dynamics	(541) 285-7346
Etre	Neal	NOAA	(617) 416-3555
Fardig	Thomas	Stantec	(805) 341-2396
Faurot-Daniels	Ellen	Ca Fish & Wildlife	(831) 233-0723
Fenske	Jacob	CTEH	(501) 584-8239
Fields	Judah	Coast Guard	(415) 559-9985
Fitzgerald	Tara	EPA START	(650) 784-1633
Flolid	Nick	CRA	(651) 233-3731
Ford	Bob	Ca Fish & Wildlife	(916) 508-2863

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Refugio Incident

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As of: 0523 1000 hrs

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ICS 205A-CG

Fordham	Randy	Plains	(661) 332-9164
Foreman	Peter	CTEH	(501) 258-0582
Foss	Steve	OSPR	(916) 416-8908
Foto	James	OSPR	(310) 683-3032
Frangis	Alexis	Ca DPR	(805) 207-9469
Fricke	Mary	Ca Fish & Wildlife	(916) 417-0210
Fry	Jeff	Coast Guard	(805) 896-6789
Fula	Luis	US EPA	(562) 913-2838
Fula Jr	Luis	US EPA	(562) 546-9858
Fusilier	Warren	Plains	(713) 201-3911
Gallant	Natasha	OSPR	(916) 716-1665
Garcia	Henry	ACTI	(661) 979-8677
Garcia	Sau	Ca Fish & Wildlife	(562) 843-2714
Garcia	Paco	CERT	(805) 451-6586
Garcia	Janet	Chumash CBCN	(805) 451-8757
Garcia	Quntan	COCC	(805) 835-2328
Garcia	Tawnee	COCC	(805) 806-5839
Gardner-Cox	Peter	WOB	(206) 914-5131
Garner	Tom	CERT OEM	(805) 689-5438
Gellerman	Holly	OSPR	(916) 747-0611
Geraghty	Brandon	WOB	(562) 217-0791
Ghilarducci	Mark	Ca OES	
Gibson	Steve	OSPR	(562) 598-2840
Gibson	Desmond	USDOT	(562) 484-8851
Gicuhi	Ngiabi	Plains	(562) 489-6466
Giovanacci	Anthony	SB OEM	(805) 636-6983
Goglia	Michael	Coast Guard	(610) 517-2318
Gold	Jennifer	Ca Fish & Wildlife	(805) 450-8695
Gonzales	Jo Anne	Plains	(661) 336-7901
Green	Jerry	Plains	(432) 638-3172
Greene	Melinda	Co Santa Barbara	(805) 689-9276
Greenman	Justin	NOAA	(815) 354-1864
Gregory	Mark	Coast Guard	(415) 720-4165
Gregory	Chris	WOB	(702) 802-1849
Gregory	Gary	WOB	(714) 642-3496
Grimmasey	Suzanne	SB ADMHS	(805) 886-5403
Grosso	Diana	CDFW	(661) 426-5276
Guevara	Pastor	COES	(562) 338-8440
Gustafson	Lori	OSPR	(916) 743-3837
Guzzardi	Joe	COEM	(805) 681-5542
Ha	Ruth	Plains	(562) 221-3937
Hagan	Julia	BSSE	(805) 377-3872

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Refugio Incident

2. Operational Period (Date/Time)
As of: 0523 1000 hrs

COMMUNICATIONS LIST
ICS 205A-CG

Hager	Dan	Coast Guard	(912) 508-1569
Haley	Sean	Coast Guard	(954) 249-3190
Hamilton	Paul	Ca Fish & Wildlife	(530) 713-1517
Hanson	Renn	NOAA	(206) 949-8025
Hartig	Rich	Plains	(562) 453-6926
Haug	Tom	WOB	(562) 217-3511
Hawley	Georganna	Applied Earthworks	(805) 760-3175
Headrick	Tylor	SB OEM	(917) 723-3441
Heddinger	Holly	Coast Guard	(707) 267-5576
Henderson	John	US Fish & Wildlife	(916) 799-0588
Henkel	Laird	OSPR	(831) 212-7665
Henning	Kik	Stantec	(805) 995-4050
Hicks	Eric	Stantec	(619) 246-0951
Hjelstrom	Eric	Ca DPR	(805) 331-2740
Hochleutner	John	Pacific Petro	(805) 260-5000
Hodgins	Patrick	Plains	(281) 467-3658
Holland	Lora	Coast Guard	(409) 527-2022
Holmes	John	ACTI	(310) 734-9125
Hooper	Michael	LA OEM	(213) 792-4237
Hoover	Kelly	SBSO	(805) 636-3478
Horn	Michael	OSPR	(760) 964-2312
Huston	Kelly	Ca OES	(916) 607-7657
Huyett	JB	NOAA	(410) 940-9933
Ikerd	Ike	Clean Seas	(805) 455-5500
Jellison	Kyle	WOB	(954) 218-4935
Johnson	Amanda	Ca Fish & Wildlife	(916) 539-8040
Johnson	Seth	Coast Guard	(646) 417-0335
Jolly	Danica	Coast Guard	(575) 581-0060
Jolly	Michael	Coast Guard	(916) 494-9201
Jones	Paul	Coast Guard	(415) 720-4171
Kelly	Sean	Ca Fish & Wildlife	(707) 322-2176
Kelly	Tami	Plains	(925) 640-9997
Kerr	Jim	Stantec	(303) 807-4702
Klatos	Jim	OSPR	(562) 343-8363
Kippes	Lanny	Plains	(562) 221-4510
Klaib	Jennifer	Stantec	(805) 704-8036
Kong	Corey	Ca Fish & Wildlife	(562) 477-7081
Kontos	Michael	Plains/KSC	(213) 663-9784
Kuhn	Justin	Coast Guard	(859) 455-6624
Kushnerov	Valerie	City of Goleta	(805) 689-8044
LaCaze	John	WOB	(281) 907-1483
LaDuke	Yvette	COES	(714) 330-1026

1. Incident Name
Refugio Incident

2. Operational Period (Date/Time)
As of: 0523 1000 hrs

COMMUNICATIONS LIST
ICS 205A-CG

Lankford	Jeff	NOAA	(206) 799-1671
Lapiers	Spencer	UPRR	(714) 321-5413
Lavin-Jones	Joy	OSPR	(916) 616-0355
Lawrence	Kyle	CTEH	(501) 366-2698
Leavitt	Andrew	Arcadis	(401) 829-6628
Ledig	David	BLM	(831) 630-5006
Leggett	Jeremy	Coast Guard	(415) 419-1256
Leggett	Chris	IEC	(603) 892-1064
Leifer	Ira	BRI	(805) 252-3636
Leone	Brad	Plains	(281) 806-9911
Lipton	Scott	OSPR	(916) 798-5087
Liverman	Marshall	Coast Guard	(214) 755-9017
Long	Lloyd	CTEH	(501) 258-7139
Lopez	Barbara	BBCI	(805) 689-9528
Loyst	Dennis	City of Goleta	(805) 962-0763
Lumpkin	Mike	CTEH	(501) 366-8304
Lyons	David	Ca Fish & Wildlife	(562) 666-5039
Majel	Jolene	COCC	(951) 520-6948
Majel	Lucia	COCC	(951) 514-9789
Malone	Jacob	BBCI	(805) 689-6884
Martinez	Jacqueline	Ca OES	(714) 520-1833
Martins	Pedro	WOB	
Matthews	Rom	Coast Guard	(310) 560-3891
Matthews	Meredith	Plains	(281) 217-0042
Mayberry	Robert	Ca OES	(916) 201-3739
McCaw	Paul	SB EHS	(805) 896-6344
McClellan	Sheridan	Coast Guard	(860) 326-4334
McGowan	Kevin	VCOES	(805) 797-6450
McKenzie	Thomas	Coast Guard	(202) 716-9181
McKinney	Tyson	Ca DOGGR	(805) 440-7280
McLaurin	Don	Coast Guard	(949) 300-9889
McMichael	Rick	Plains	(713) 254-5385
McVay	Brad	Sheriff	(805) 617-5735
Mello	Joe	Ca Fish & Wildlife	(209) 595-5504
Mendoza	Andrew	SYCM	(805) 451-0513
Mikes	Tina	OMI	(832) 347-0071
Mitchell	Fred	Ponder	(707) 301-1823
Mogharabi	Nahal	US EPA	(213) 514-4361
Mooney	Dan	OSHA	(925) 202-7485
Moore	Andrea	OSPR	
Morello	Patricia	BBCI	(805) 617-9891
Morello	Eddie	BCM	(805) 291-2342

1. Incident Name
Refugio Incident

2. Operational Period (Date/Time)
As of: 0523 1000 hrs

COMMUNICATIONS LIST
ICS 205A-CG

Morello	Paul	BCM	(805) 743-1805
Morello Jr.	Eddie	BCM	(805) 291-1263
Morey	Mark	Dept Energy	(805) 698-8244
Mosley	David	Coast Guard	(206) 819-9154
Mosley	Dave	Patriot Environmental	(661) 340-7177
Moynard	Patrick	VCOS	(805) 797-3623
Munns	Ann	Applied Earthworks	(805) 451-5825
Murphy	Don	WOB	(516) 996-7348
Muskat	Judd	OSPR	(916) 216-1301
Myers	Christopher	EPA START	(720) 837-0690
Myers	Douglas	Plains	(917) 750-1464
Navarro	Ray	SBCFD	(805) 896-6403
Navarro	James	SYBCI	(805) 636-4949
Newkirk	Andy	City of Goleta	(603) 969-1482
Newquist	Lori	COES	(916) 508-5648
Nocerino	Eric	Applied Earthworks	(720) 883-6507
Nocker	Nicolas	Co Santa Barbara	(805) 637-1970
Norris	Wyn	OMI	(281) 795-5767
Norris	Anastasia	OSPR	(310) 310-9917
Nosbaum	Mike	WOB	(707) 601-6892
O'Leary	Mariana	Coast Guard	(757) 567-8731
Oaks	Steve	SBC Fire	(805) 451-6801
O'Gorman	Mary	SB Co Sup	(805) 568-2191
O'Leary	Tim	WOB	(281) 352-7740
Olmstead	Brian	SB Sheriff	(805) 452-7756
Orr	Howard	SBCFD	(805) 794-5102
Ortega	Marcos	Ca State Parks	(805) 331-4144
Osborne	Bob	Plains	(661) 979-7003
Palmer	Darren	Plains	(661) 978-4915
Panasluk	James	CTEH	(501) 952-3972
Patterson	Donald	SBC OEM	(805) 696-1191
Pavel	Kai	Stantec	(805) 648-1499
Peltier	Guy	Plains	(281) 217-0012
Perez	Peuyoko	COCC	(805) 231-0229
Perez	Rick	COCC	(805) 207-7162
Perez Jr	Rick	COCC	(805) 444-9354
Peterson	Robert	Applied Earthworks	(805) 588-2364
Phillips	Jeff	US Fish & Wildlife	(415) 652-6502
Pina	Marushka	WOB	
Poch	Ben	ISS	(318) 218-6888
Posekian	Keith	Stantec	(805) 338-5650
Poulter	Simon	Stantec	(805) 701-1581

1. Incident Name
Refugio Incident

2. Operational Period (Date/Time)
As of: 0523 1000 hrs

COMMUNICATIONS LIST
ICS 205A-CG

Pryor	Rachael	NOAA	(206) 379-2454
Radcliff	Keith	ISS	(903) 721-5030
Randall	Kathy	Plains	(805) 657-6764
Rangel	Alonzo	COCC	(805) 861-3373
Reitherman	Bruce	SBCO Energy	(805) 959-4680
Rendon	Ruben	Plains	(562) 843-3560
Rennick	Greg	COES	(562) 577-8503
Reyes-Martin	Luz	City of Goleta	(714) 501-7158
Riedel	Jim	NRC	(206) 550-0648
Roberts	StephAnnie	Stantec	(805) 427-4873
Robinson	Tiana	Stantec	(519) 505-3438
Robles	Armando	Plains	(713) 376-6290
Rogow	Michelle	US EPA	(415) 595-8347
Rommel	Brian	Plains	(832) 248-8771
Ross	Shaun	Coast Guard	(415) 720-4166
Ruder	Mark	Plains	(861) 910-4105
Rudley	Mike	Patriot Environmental	(562) 244-2270
Russell	Evan	Coast Guard	(251) 635-2235
Sandoval	Samantha	BBCI	(916) 678-2022
Santonil	Malinda	OSPR	(562) 499-9699
Scherz	Andrew	CTEH	(501) 258-7077
Schmid	Ryan	Coast Guard	(415) 798-6475
Senner	Bill	Plains	(562) 221-8211
Servidio	Joe	Coast Guard	
Settle	Ashley	Plains	(904) 629-0805
Shadkamyam	Amy	UCSB	(805) 448-2189
Shafer	Allen	Plains	(307) 259-1289
Shestag	Carol	Stantec	(805) 509-0377
Siemann	Taylor	Patriot Environmental	(805) 679-3297
Simmons	Matt	Clean Seas	(954) 232-2968
Simmons	David	US Fish & Wildlife	(805) 665-8029
Simpson	Robert	Coast Guard	(727) 403-8379
Sironen	Heather	OSPR	(916) 730-9992
Skelton	Scott	CTEH	(501) 952-9621
Sleeger	Preston	WOB	(503) 686-3158
Smith	James	Coast Guard	(251) 644-1785
Smith	Lincoln	NOAA	(307) 220-3616
Smith	Phil	Plains	(713) 851-1765
Sobieski	Dan	WOB	(714) 342-6358
Stackhouse	Mike	Plains	(281) 684-7985
Staneart	Cody	Coast Guard	(510) 289-0780
Stanley	Lindsey	COES	(805) 452-0070

76 of 87

1. Incident Name
Refugio Incident

2. Operational Period (Date/Time)
As of: 0523 1000 hrs

COMMUNICATIONS LIST
ICS 205A-CG

Storrer	John	SBCO Energy	(805) 689-5982
Stout	Jordan	NOAA	(206) 321-3320
Strojek	Bob	CERT	(805) 705-5763
Su	Wendy	US EPA	(415) 947-4554
Sugarman	Susan	Ca Fish & Wildlife	(916) 215-8284
Surface	Cheryl	WOB	(775) 721-3663
Tai	Suu-Va	Ca Volunteers	(414) 425-1514
Taylor	Rick	Plains	(562) 577-7007
Tejada	Barbara	CSP	(661) 435-3372
Thixton	Chris	Ca Fish & Wildlife	(562) 233-7095
Todd	Ryan	Ca Fish & Wildlife	(916) 698-0036
Toney	Jeff	Ca OES	(562) 810-8419
Torres	Sonia	OSPR	(562) 370-6794
Touth	Jane	US Dept Interior	(805) 320-3170
Trevino	Linda	BBCI	(805) 264-0542
Turner	Adam	Plains	(661) 910-8729
Turner	Keith	Plains	(562) 216-3281
Valenzuela	Troy	Plains	(713) 444-6984
Velez	Loryann	BBCI	(805) 252-1612
Venkat	Manjunath	Stantec	(805) 358-9479
Victoria	Jon	Ca Fish & Wildlife	(310) 413-6533
Viezicke	Justin	NOAA Fisheries	(562) 506-4315
Voss	James	NRVP	(909) 648-6313
Wageneck	Lael	Co Santa Barbara	(805) 636-9204
Waldon	Maggie	USEPA	(415) 940-1109
Walsh	Aaron	Coast Guard	(626) 476-9683
Weaver	Jennifer	NOAA	(386) 341-6917
Weaver	Bryan	SBCFD	(805) 896-6338
Weber	Michael	Stantec	(805) 477-8580
Weideman	Christopher	Coast Guard	(541) 335-9976
Wells	Anne	City of Goleta	(805) 637-4397
Westervelt	Jeff	OSPR	(916) 212-1367
White	Chris	ISS	(903) 721-9681
White	Cassandra	OSPR	(916) 508-2641
White	Greg	OSPR	(805) 458-1879
Wilkin	Sarah	NOAA	(240) 429-9161
Williams	Jennifer	Coast Guard	(562) 355-3672
Wilson	Ken	OSPR	(805) 558-1006
Wilson	Allison	Plains	(213) 925-9633
Wolf	Janet	SB Co Sup	(805) 568-2191
Wong	Howard	LA FD Inv	(213) 725-6313
Workman	Darin	WOB	(985) 201-4339

77 of 87

1. Incident Name
Refugio Incident

2. Operational Period (Date/Time)
As of: 0523 1000 hrs

COMMUNICATIONS LIST
ICS 205A-CG

Yee	James	BBCI	(805) 968-1606
Yukihiro	Richard	Patriot Environmental	(562) 244-2764
Ziccardi	Mike	OWCN	(530) 979-7561
Zubiate	Selena	CBM	(805) 743-1805

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ICS 205A-CG

3. Basic Local Communications Information

Last Name	First Name	Organization	Phone
Abe	Kelly	Ca Fish & Wildlife	(916) 216-3964
Abrams	Ricard	COEM	(805) 896-6371
Addassi	Yvonne	OSPR	(916) 956-1162
Albrough	John	Coast Guard	(415) 596-3542
Alcantara	Eduardo	Coast Guard	(520) 223-2759
Amon	George	Coast Guard	(262) 995-8188
Anderson	Andrea	Coast Guard	(405) 833-3068
Anderson	Ryan	Plains	(281) 224-9891
Arndt	Elsa	SB OEM	(805) 681-5524
Backus	Dave	CTEH	(901) 496-6658
Baker	Phil	CTEH	(501) 804-8138
Barbier	Brian	Applied Earthworks	(530) 848-3253
Barnum	Gary	Coast Guard	(714) 742-4279
Barriga	Gonzalo	LA FD Inv	(213) 725-8862
Beene	Jamie	ISS	(903) 570-8958
Berg	Catherine	NOAA	(907) 529-9157
Bergeron	Jason	WOB	(281) 414-7742
Berman-Kowalewski	Michelle	NOAA	(805) 896-0858
Birg	Mike	CTEH	(501) 517-5712
Bishop	Jonathan	Ca Coastal Comm	(415) 693-8375
Bode	Denise	Plains	(405) 818-1775
Boelhouwer	Steve	Co SBICT	(805) 568-2656
Boes	Richard	Coast Guard	(202) 494-3557
Boggs	Melissa	Ca Fish & Wildlife	(805) 558-1005
Boisen	Kent	SBFD	(805) 755-3120
Bonham	Chuck	Ca Fish & Wildlife	
Bontty	Mona	COES	(562) 673-0411
Boyd	Shawn	Ca OES	(916) 201-7666
Boyes	Edward	WOB	(562) 760-6940
Braund	Trevor	Clean Seas	(954) 294-5597
Brazer	Mara	Brazer Comm	(415) 305-6677
Bronson	Collin	Coast Guard	(562) 879-1141
Brown	Steve	WOB	(516) 457-2571
Brzuska	Donald	Coast Guard	(510) 333-6297
Buchanan	James	Plains	(661) 437-1459
Byrd	Brian	Plains	(601) 467-5266
Cabral	Santos	Ca Fish & Wildlife	(949) 289-2928
Caesar	Jim	UCSB	(805) 450-1437
Cafasso	Sarah	US EPA	(978) 944-1946
Caillouet	Josh	CTEH	(985) 637-1220

79 of 87

1. Incident Name
Refugio Incident

2. Operational Period (Date/Time)
As of: 0523 1000 hrs

COMMUNICATIONS LIST
ICS 205A-CG

Caliguire	Mike	Patriot Environmental	(510) 965-3691
Callister	Tim	Coast Guard	(253) 444-7651
Caraway	Katy	Coast Guard	(505) 400-6304
Castro	Guy	Plains	(562) 756-2647
Cazier	Josh	SBCFD	(805) 896-6333
Chastain	Dennis	Ca Fish & Wildlife	(562) 505-8988
Chickering	Robert	Adv BioCatalytics	(949) 887-9509
Christensen	Shellee	Coast Guard	(541) 999-0156
Clark	Heather	Coast Guard	(251) 680-7911
Cohen	Scott	Ca Fish & Wildlife	(805) 207-6312
Connell	Mike	Ca Fish & Wildlife	(805) 331-1867
Corbo	Christian	Ca Fish & Wildlife	(310) 864-5299
Costlow	Jeremy	ISS	(903) 714-6172
Council	Jim	Coast Guard	(954) 649-4192
Craddock	Spike	Patriot Environmental	(805) 680-2050
Creighton	Kent	Patriot Environmental	(562) 310-6969
Crider	Ryan	Plains	(504) 453-9724
Crochet	William	Plains	(281) 536-8172
Cullen	Thomas	OSPR	(510) 517-8314
Dabney	Rory	WOB	(503) 467-6224
Davis	Cory	CTEH	(501) 258-7881
Delgado	Ruben	Patriot Environmental	(562) 244-4408
Dellith	Chris	US Fish & Wildlife	(805) 644-1766
Diamond	Walter	OMI	(504) 236-0085
Dibenedetto	John	Dept Energy	(805) 681-2240
Dicken	Ian	SB ICT	(805) 315-5256
Donohue	Keith	Coast Guard	(415) 320-5345
Dorsey	Matt	NOAA	(315) 278-0922
Doss	Ryan	Coast Guard	(305) 542-8127
Doty	Ima	OSPR	(916) 215-3858
Downey	Charlene	Coast Guard	(310) 707-7381
Dunn	Chris	Stantec	(805) 813-0798
Ellerbe	Robin	Coast Guard	(510) 388-0507
Erlandson	Jon	Historical Dynamics	(541) 285-7346
Etre	Neal	NOAA	(617) 416-3555
Fardig	Thomas	Stantec	(805) 341-2396
Faurot-Daniels	Ellen	Ca Fish & Wildlife	(831) 233-0723
Fenske	Jacob	CTEH	(501) 584-8239
Fields	Judah	Coast Guard	(415) 559-9985
Fitzgerald	Tara	EPA START	(650) 784-1633
Flolid	Nick	CRA	(651) 233-3731
Ford	Bob	Ca Fish & Wildlife	(916) 508-2863

80 of 87

1. Incident Name
Refugio Incident

2. Operational Period (Date/Time)
As of: 0523 1000 hrs

COMMUNICATIONS LIST
ICS 205A-CG

Fordham	Randy	Plains	(661) 332-9164
Foreman	Peter	CTEH	(501) 258-0582
Foss	Steve	OSPR	(916) 416-8908
Foto	James	OSPR	(310) 683-3032
Frangis	Alexis	Ca DPR	(805) 207-9469
Fricke	Mary	Ca Fish & Wildlife	(916) 417-0210
Fry	Jeff	Coast Guard	(805) 896-6789
Fula	Luis	US EPA	(562) 913-2838
Fula Jr	Luis	US EPA	(562) 546-9858
Fusilier	Warren	Plains	(713) 201-3911
Gallant	Natasha	OSPR	(916) 716-1665
Garcia	Henry	ACTI	(661) 979-8677
Garcia	Sau	Ca Fish & Wildlife	(562) 843-2714
Garcia	Paco	CERT	(805) 451-6586
Garcia	Janet	Chumash CBCN	(805) 451-8757
Garcia	Quntan	COCC	(805) 835-2328
Garcia	Tawnee	COCC	(805) 806-5839
Gardner-Cox	Peter	WOB	(206) 914-5131
Garner	Tom	CERT OEM	(805) 689-5438
Gellerman	Holly	OSPR	(916) 747-0611
Geraghty	Brandon	WOB	(562) 217-0791
Ghilarducci	Mark	Ca OES	
Gibson	Steve	OSPR	(562) 598-2849
Gibson	Desmond	USDOT	(562) 484-8851
Gicuhi	Ngiabi	Plains	(562) 489-6466
Giovanacci	Anthony	SB OEM	(805) 636-6983
Goglia	Michael	Coast Guard	(610) 517-2318
Gold	Jennifer	Ca Fish & Wildlife	(805) 450-8695
Gonzales	Jo Anne	Plains	(661) 336-7901
Green	Jerry	Plains	(432) 638-3172
Greene	Melinda	Co Santa Barbara	(805) 689-9276
Greenman	Justin	NOAA	(815) 354-1864
Gregory	Mark	Coast Guard	(415) 720-4165
Gregory	Chris	WOB	(702) 802-1849
Gregory	Gary	WOB	(714) 642-3496
Grimmasey	Suzanne	SB ADMHS	(805) 886-5403
Grosso	Diana	CDFW	(661) 426-5276
Guevara	Pastor	COES	(562) 338-8440
Gustafson	Lori	OSPR	(916) 743-3837
Guzzardi	Joe	COEM	(805) 681-5542
Ha	Ruth	Plains	(562) 221-3937
Hagan	Julia	BSSE	(805) 377-3872

1. Incident Name
Refugio Incident

2. Operational Period (Date/Time)
As of: 0523 1000 hrs

COMMUNICATIONS LIST
ICS 205A-CG

Hager	Dan	Coast Guard	(912) 508-1569
Haley	Sean	Coast Guard	(954) 249-3190
Hamilton	Paul	Ca Fish & Wildlife	(530) 713-1517
Hanson	Renn	NOAA	(206) 949-8025
Hartig	Rich	Plains	(562) 453-6926
Haug	Tom	WOB	(562) 217-3511
Hawley	Georganna	Applied Earthworks	(805) 760-3175
Headrick	Tylor	SB OEM	(917) 723-3441
Hedding	Holly	Coast Guard	(707) 267-5576
Henderson	John	US Fish & Wildlife	(916) 799-0588
Henkel	Laird	OSPR	(831) 212-7665
Henning	Kik	Stantec	(805) 995-4050
Hicks	Eric	Stantec	(619) 246-0951
Hjelstrom	Eric	Ca DPR	(805) 331-2740
Hochleutner	John	Pacific Petro	(805) 260-5000
Hodgins	Patrick	Plains	(281) 467-3658
Holland	Lora	Coast Guard	(409) 527-2022
Holmes	John	ACTI	(310) 734-9125
Hooper	Michael	LA OEM	(213) 792-4237
Hoover	Kelly	SBSO	(805) 636-3478
Horn	Michael	OSPR	(760) 964-2312
Huston	Kelly	Ca OES	(916) 607-7657
Huyett	JB	NOAA	(410) 940-9933
Ikerd	Ike	Clean Seas	(805) 455-5500
Jellison	Kyle	WOB	(954) 218-4935
Johnson	Amanda	Ca Fish & Wildlife	(916) 539-8040
Johnson	Seth	Coast Guard	(646) 417-0335
Jolly	Danica	Coast Guard	(575) 581-0060
Jolly	Michael	Coast Guard	(916) 494-9201
Jones	Paul	Coast Guard	(415) 720-4171
Kelly	Sean	Ca Fish & Wildlife	(707) 322-2176
Kelly	Tami	Plains	(925) 640-9997
Kerr	Jim	Stantec	(303) 807-4702
Kiatos	Jim	OSPR	(562) 343-8363
Kippes	Lanny	Plains	(562) 221-4510
Klaib	Jennifer	Stantec	(805) 704-8036
Kong	Corey	Ca Fish & Wildlife	(562) 477-7081
Kontos	Michael	Plains/KSC	(213) 663-9784
Kuhn	Justin	Coast Guard	(859) 455-6624
Kushnerov	Valerie	City of Goleta	(805) 689-8044
LaCaze	John	WOB	(281) 907-1483
LaDuke	Yvette	COES	(714) 330-1026

82 of 87

1. Incident Name
Refugio Incident

2. Operational Period (Date/Time)
As of: 0523 1000 hrs

COMMUNICATIONS LIST
ICS 205A-CG

Lankford	Jeff	NOAA	(206) 799-1671
Lapiers	Spencer	UPRR	(714) 321-5413
Lavin-Jones	Joy	OSPR	(916) 616-0355
Lawrence	Kyle	CTEH	(501) 366-2698
Leavitt	Andrew	Arcadis	(401) 829-6628
Ledig	David	BLM	(831) 630-5006
Leggett	Jeremy	Coast Guard	(415) 419-1256
Leggett	Chris	IEC	(603) 892-1064
Leifer	Ira	BRI	(805) 252-3636
Leone	Brad	Plains	(281) 806-9911
Lipton	Scott	OSPR	(916) 798-5087
Liverman	Marshall	Coast Guard	(214) 755-9017
Long	Lloyd	CTEH	(501) 258-7139
Lopez	Barbara	BBCI	(805) 689-9528
Loyst	Dennis	City of Goleta	(805) 962-0763
Lumpkin	Mike	CTEH	(501) 366-8304
Lyons	David	Ca Fish & Wildlife	(562) 666-5039
Majel	Jolene	COCC	(951) 520-6948
Majel	Lucia	COCC	(951) 514-9789
Malone	Jacob	BBCI	(805) 689-6884
Martinez	Jacqueline	Ca OES	(714) 520-1833
Martins	Pedro	WOB	
Matthews	Rom	Coast Guard	(310) 560-3891
Matthews	Meredith	Plains	(281) 217-0042
Mayberry	Robert	Ca OES	(916) 201-3739
McCaw	Paul	SB EHS	(805) 896-6344
McClellan	Sheridan	Coast Guard	(860) 326-4334
Mcgowan	Kevin	VCOES	(805) 797-6450
McKenzie	Thomas	Coast Guard	(202) 716-9181
McKinney	Tyson	Ca DOGGR	(805) 440-7280
McLaurin	Don	Coast Guard	(949) 300-9889
McMichael	Rick	Plains	(713) 254-5385
McVay	Brad	Sheriff	(805) 617-5735
Mello	Joe	Ca Fish & Wildlife	(209) 595-5504
Mendoza	Andrew	SYCM	(805) 451-0513
Mikes	Tina	OMI	(832) 347-0071
Mitchell	Fred	Ponder	(707) 301-1823
Mogharabi	Nahal	US EPA	(213) 514-4361
Mooney	Dan	OSHA	(925) 202-7485
Moore	Andrea	OSPR	
Morello	Patricia	BBCI	(805) 617-9891
Morello	Eddie	BCM	(805) 291-2342

83 of 87

1. Incident Name
Refugio Incident

2. Operational Period (Date/Time)
As of: 0523 1000 hrs

COMMUNICATIONS LIST
ICS 205A-CG

Morello	Paul	BCM	(805) 743-1805
Morello Jr.	Eddie	BCM	(805) 291-1263
Morey	Mark	Dept Energy	(805) 698-8244
Mosley	David	Coast Guard	(206) 819-9154
Mosley	Dave	Patriot Environmental	(661) 340-7177
Moynard	Patrick	VCOS	(805) 797-3623
Munns	Ann	Applied Earthworks	(805) 451-5825
Murphy	Don	WOB	(516) 996-7348
Muskat	Judd	OSPR	(916) 216-1301
Myers	Christopher	EPA START	(720) 837-0690
Myers	Douglas	Plains	(917) 750-1464
Navarro	Ray	SBCFD	(805) 896-6403
Navarro	James	SYBCI	(805) 636-4949
Newkirk	Andy	City of Goleta	(603) 969-1482
Newquist	Lori	COES	(916) 508-5648
Nocerino	Eric	Applied Earthworks	(720) 883-6507
Nocker	Nicolas	Co Santa Barbara	(805) 637-1970
Norris	Wyn	OMI	(281) 795-5767
Norris	Anastasia	OSPR	(310) 310-9917
Nosbaum	Mike	WOB	(707) 601-6892
O'Leary	Mariana	Coast Guard	(757) 567-8731
Oaks	Steve	SBC Fire	(805) 451-6801
O'Gorman	Mary	SB Co Sup	(805) 568-2191
O'Leary	Tim	WOB	(281) 352-7740
Olmstead	Brian	SB Sheriff	(805) 452-7756
Orr	Howard	SBCFD	(805) 794-5102
Ortega	Marcos	Ca State Parks	(805) 331-4144
Osborne	Bob	Plains	(661) 979-7003
Palmer	Darren	Plains	(661) 978-4915
Panasluk	James	CTEH	(501) 952-3972
Patterson	Donald	SBC OEM	(805) 696-1191
Pavel	Kai	Stantec	(805) 648-1499
Peltier	Guy	Plains	(281) 217-0012
Perez	Peuyoko	COCC	(805) 231-0229
Perez	Rick	COCC	(805) 207-7162
Perez Jr	Rick	COCC	(805) 444-9354
Peterson	Robert	Applied Earthworks	(805) 588-2364
Phillips	Jeff	US Fish & Wildlife	(415) 652-6502
Pina	Marushka	WOB	
Poch	Ben	ISS	(318) 218-6888
Posekian	Keith	Stantec	(805) 338-5650
Poulter	Simon	Stantec	(805) 701-1581

1. Incident Name
Refugio Incident

2. Operational Period (Date/Time)
As of: 0523 1000 hrs

COMMUNICATIONS LIST
ICS 205A-CG

Pryor	Rachael	NOAA	(206) 379-2454
Radcliff	Keith	ISS	(903) 721-5030
Randall	Kathy	Plains	(805) 657-6764
Rangel	Alonzo	COCC	(805) 861-3373
Reitherman	Bruce	SBCO Energy	(805) 959-4680
Rendon	Ruben	Plains	(562) 843-3560
Rennick	Greg	COES	(562) 577-8503
Reyes Martin	Luz	City of Goleta	(714) 601-7158
Riedel	Jim	NRC	(206) 550-0648
Roberts	StephAnnie	Stantec	(805) 427-4873
Robinson	Tiana	Stantec	(519) 505-3438
Robles	Armando	Plains	(713) 376-6290
Rogow	Michelle	US EPA	(415) 595-8347
Rommel	Brian	Plains	(832) 248-8771
Ross	Shaun	Coast Guard	(415) 720-4166
Ruder	Mark	Plains	(661) 910-4105
Rudley	Mike	Patriot Environmental	(562) 244-2270
Russell	Evan	Coast Guard	(251) 635-2235
Sandoval	Samantha	BBCI	(916) 678-2022
Santonil	Malinda	OSPR	(562) 499-9699
Scherz	Andrew	CTEH	(501) 258-7077
Schmid	Ryan	Coast Guard	(415) 798-6475
Senner	Bill	Plains	(562) 221-8211
Servidio	Joe	Coast Guard	
Settle	Ashley	Plains	(904) 629-0805
Shadkamyan	Amy	UCSB	(805) 448-2189
Shafer	Allen	Plains	(307) 259-1289
Shestag	Carol	Stantec	(805) 509-0377
Siemann	Taylor	Patriot Environmental	(805) 679-3297
Simmons	Matt	Clean Seas	(954) 232-2968
Simmons	David	US Fish & Wildlife	(805) 665-8029
Simpson	Robert	Coast Guard	(727) 403-8379
Sironen	Heather	OSPR	(916) 730-9992
Skelton	Scott	CTEH	(501) 952-9621
Sleeper	Preston	WOB	(503) 686-3158
Smith	James	Coast Guard	(251) 644-1785
Smith	Lincoln	NOAA	(307) 220-3616
Smith	Phil	Plains	(713) 851-1765
Sobieski	Dan	WOB	(714) 342-6358
Stackhouse	Mike	Plains	(281) 684-7985
Staneart	Cody	Coast Guard	(510) 289-0780
Stanley	Lindsey	COES	(805) 452-0070

85 of 87

1. Incident Name
Refugio Incident

2. Operational Period (Date/Time)
As of: 0523 1000 hrs

COMMUNICATIONS LIST
ICS 205A-CG

Storrer	John	SBCO Energy	(805) 689-5982
Stout	Jordan	NOAA	(206) 321-3320
Strojek	Bob	CERT	(805) 705-5763
Su	Wendy	US EPA	(415) 947-4554
Sugarman	Susan	Ca Fish & Wildlife	(916) 215-8284
Surface	Cheryl	WOB	(775) 721-3863
Tai	Suu-Va	Ca Volunteers	(414) 425-1514
Taylor	Rick	Plains	(562) 577-7007
Tejada	Barbara	CSP	(661) 435-3372
Thixton	Chris	Ca Fish & Wildlife	(562) 233-7095
Todd	Ryan	Ca Fish & Wildlife	(916) 698-0036
Toney	Jeff	Ca OES	(562) 810-8419
Torres	Sonia	OSPR	(562) 370-6794
Touth	Jane	US Dept Interior	(805) 320-3170
Trevino	Linda	BBCI	(805) 264-0542
Turner	Adam	Plains	(661) 910-8729
Turner	Keith	Plains	(562) 216-3281
Valenzuela	Troy	Plains	(713) 444-6984
Velez	Loryann	BBCI	(805) 252-1612
Venkat	Manjunath	Stantec	(805) 358-9479
Victoria	Jon	Ca Fish & Wildlife	(310) 413-6533
Viezbicke	Justin	NOAA Fisheries	(562) 506-4315
Voss	James	NRVP	(909) 648-6313
Wageneck	Lael	Co Santa Barbara	(805) 636-9204
Waldon	Maggie	USEPA	(415) 940-1109
Walsh	Aaron	Coast Guard	(626) 476-9683
Weaver	Jennifer	NOAA	(386) 341-6917
Weaver	Bryan	SBCFD	(805) 896-6338
Weber	Michael	Stantec	(805) 477-8580
Weideman	Christopher	Coast Guard	(541) 335-9975
Wells	Anne	City of Goleta	(805) 637-4397
Westervelt	Jeff	OSPR	(916) 212-1367
White	Chris	ISS	(903) 721-9681
White	Cassandra	OSPR	(916) 508-2641
White	Greg	OSPR	(805) 458-1879
Wilkin	Sarah	NOAA	(240) 429-9161
Williams	Jennifer	Coast Guard	(562) 355-3672
Wilson	Ken	OSPR	(805) 558-1006
Wilson	Allison	Plains	(213) 925-9633
Wolf	Janet	SB Co Sup	(805) 568-2191
Wong	Howard	LA FD Inv	(213) 725-6313
Workman	Darin	WOB	(985) 201-4339

1. Incident Name
Refugio Incident

2. Operational Period (Date/Time)
As of: 0523 1000 hrs

COMMUNICATIONS LIST
ICS 205A-CG

Yee	James	BBCI	(805) 968-1606
Yukihiro	Richard	Patriot Environmental	(562) 244-2764
Ziccardi	Mike	OWCN	(530) 979-7561
Zubiata	Selena	CBM	(805) 743-1805